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October 7, 2021

Ms. Jennifer Knoepfle, Ph.D., P.G.
Remedial Project Manager
U.S. EPA Region 5 (SR-6J)
Superfund Division
77 West Jackson Blvd.
Chicago, Illinois 60604

Mr. Brian Conrath
National Priorities List Unit
Federal Sites Remediation Section
Division of Remediation Management
Bureau of Land
Illinois Environmental Protection Agency
1021 N. Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: Request to Shutdown Remediation Systems and Perform Rebound Monitoring
Hamilton Sundstrand Corporation Plant 1/2 Facility
Area 9/10 Remedial Action
Southeast Rockford Groundwater Contamination Superfund Site
2421 11th Street
Rockford, Illinois 61104
ILD981000417

Dear Ms. Knoepfle and Mr. Conrath:

This letter to request shutdown the remediation systems and perform rebound monitoring, has been prepared by AECOM Technical Services Inc. (AECOM) on behalf of Hamilton Sundstrand Corporation (HSC). This shutdown request letter is part of the ongoing remedy for the HSC Plant 1/2 Facility in Rockford, Illinois (Site – see **Figure 1**).

Monitoring data presented in the *2020 Annual Groundwater Management Zone Monitoring and System Performance Report* (AECOM March 2021), the *First Quarter 2021 Groundwater Monitoring Zone Monitoring and System Performance Report* (AECOM April 2021), and the *Second Quarter 2021 Groundwater Monitoring Zone Monitoring and System Performance Report* (AECOM September 2021) showed that the current contaminants of concern (COCs) in groundwater within the influence of the remediation systems (Phase 1 and Phase 2 air sparge and soil vapor extraction [AS/SVE] systems) are less than the Preliminary Remediation Goals (PRGs), which are federal Safe Drinking Water Act Maximum Concentration Levels (MCLs), except for one interior monitoring well (RAMW07). The area within the influence of the remediation systems is along the Site southern property boundary (Phase 1 system) and the area upgradient to the southern property

boundary (Phase 2 system). For this Site, the United States Environmental Protection Agency (USEPA) has defined groundwater that exhibits detectable levels of COCs as leachate.

For reference, a preliminary Conceptual Site Model (CSM) is provided in **Attachment A** with a focused review of areas historically exhibiting soil impacts within the Site that have the potential to affect leachate. The CSM provides a listing of potential data gaps to assess if residuals from these detected concentrations could be impacting groundwater. Additional investigation activities, as needed, will be detailed in future work plans to gain a better understanding of the potential of these residuals to impact groundwater. One of the data gaps identified is to determine the overall effectiveness of the remediation systems, which can be initially assessed by de-activating the systems for an extended period and performing rebound monitoring.

The purpose of this shutdown request letter is to describe the process to implement the shutdown of the remediation systems and conduct a rebound monitoring period (consisting of quarterly leachate monitoring events for at least one year). The Phase 1 and 2 AS/SVE systems are to remain in place during the rebound monitoring period in the event the system(s) or components of the system(s) need to be re-activated.

This request for system shutdown and rebound monitoring is to be implemented independent of the activities associated with the Alternative Cleanup Levels¹ (ACLs) Work Plan for the Site's western property boundary currently under review by USEPA and Illinois Environmental Protection Agency (IEPA).

Governing Documents Background

A brief summary of the documents governing remedial action is provided below. Many of the key negotiations between USEPA, IEPA, and HSC occurred nearly 13 years ago. A *Work Progression Flow Diagram* has been prepared (**Figure 2**) to clarify this historical background information and illustrate the general progression of the Site from negotiation of governing documents through implementation of the leachate remedy.

As shown in **Figure 2**, USEPA issued the Operable Unit Three Record of Decision (OU3 ROD) for the Southeast Rockford Groundwater Contamination (SERGWC) Superfund Site in 2002 to address certain potential sources of groundwater contamination at the SERGWC Superfund Site. Of the four sources identified in the 2002 ROD, Area 9/10 is an approximately 70-acre industrial area bounded by 11th Street to the east, 23rd Avenue to the north, Harrison Avenue to the south, and 6th Street to the west. The 12.5-acre HSC Site is located in the northeast corner of Area 9/10 (see **Figure 3 – Performance Standard Concept**). The PRGs for leachate established in the OU3 ROD for Area 9/10 boundary are MCLs.

Following completion of the OU3 ROD, HSC negotiated a Consent Decree (CD) with USEPA and IEPA in 2008 for the completion of a Remedial Action for source control at the Site property within Area 9/10. The performance standards and requirements of the CD are more fully described in the Agency-approved controlling documents, including: the Statement of Work (SOW) (USEPA 2008), the Final 100 Percent Remedial Design document (Stantec, 2007), the Remedial Action Work Plan (RAWP) (Stantec 2008a), and the Remedial Action Process Flow Diagram (RAPFD originally included in the SOW).

¹ The application of Alternative Cleanup Levels is as defined in the 2008 Consent Decree and Statement of Work.

According to the approved RAWP, the implemented remedy was specifically targeted to address an area of the Site where COCs were originally present in leachate at concentrations that were two or more orders of magnitude greater than their PRGs. Though the treatment area was not fully defined when the OU3 ROD 2002 was issued, the Site was identified/defined in the ROD as a “source location” within the larger “Source Area 9/10” (Area 9/10) based on data collected prior to the ROD². The ROD further required that the Site remedy include the establishment of a Groundwater Management Zone (GMZ) for this “source location” (the Site) whose limits were defined by the Site property boundaries and a vertical limit of 45 feet below ground surface. The two Site GMZs, designated “GMZ 1” (HSC property north of railroad tracks) and “GMZ 2” (HSC property south of railroad tracks) for the source location, are shown in **Figure 4** and were approved by the IEPA in 2008. Monitoring wells within the Site GMZs are routinely (quarterly) sampled, and the leachate analytical results are compared to OU3 PRGs to evaluate the effectiveness of the remedy.

Summary of Current Leachate Conditions within the Influence of the Remediation Systems

As detailed in the 2020 Annual, 2021 First Quarter, and 2021 Second Quarter GMZ Monitoring and System Performance Reports, PRGs continue to be achieved along the southern Site property boundary.

Monitoring well data has been below PRGs along the southern Site property boundary since 2016, which consists of 20 consecutive quarterly leachate sampling events (see **Table 1**). Furthermore, sample results from wells upgradient of the Site property boundary have been below PRGs since August 2017, which consists of 16 consecutive quarterly sampling events, with the following exceptions (see **Table 2**):

1. RAMW06: 1,1,1-Trichloroethane (1,1,1-TCA) once in May 2020
2. RAMW07: 1,1-Dichloroethene in February and May 2019 and 1,1,1-TCA in February, May, August 2019 and May 2021

A summary of the leachate samples collected in May 2021 that exhibited COC concentrations above/below PRGs is shown on **Figure 5**. Also included in **Attachment B** are graphs with concentration data and leachate elevation for each monitoring well within the influence of the remediation systems. Fluctuations of the leachate elevations does not appear to have a significant influence on COC concentrations.

Based on these results, an AS/SVE shutdown strategy (with rebound monitoring) should be implemented to determine what, if any, rebound there may be in leachate concentrations. The Phase 1 and 2 systems are to remain in place during the rebound monitoring period, consisting of quarterly monitoring events for at least one year, in the event the system(s) need to be re-activated.

Shutdown of the Remediation Systems

The Phase 1 AS/SVE system, which commenced full-scale operation on December 7, 2009, is currently operating along the southwest boundary of the Site. The Phase 2 AS/SVE system, which

² See *EPA Superfund Record of Decision Southeast Rockford Ground Water Contamination, 2002. EPA/ROD/R05-02/077 2002.*

commenced full scale operation in March 2011, is currently operating within the more central portions of the Site in known source areas.

Both the Phase 1 and Phase 2 systems have been operating in a pulse mode (in accordance with the *Request for Pulse Mode Operation of the Phase 1 and Phase 2 AS/SVE Systems* memorandum that was approved by the USEPA on March 21, 2012) since June 1, 2012. Pulsing of the systems consists of distinct periods where the systems are operating (pulse-on mode) and not operating (pulse-off mode). The Phase 1 and Phase 2 systems are pulsed between modes concurrently. Initially the systems pulse-off modes lasted approximately two months and the pulse-on modes lasted for only one month. In June 2013, the duration of the pulse-on mode was increased to two months to match the duration of the pulse-off mode.

The systems are scheduled to enter pulse-off mode at the end of November 2021. It is proposed that the systems will remain off and the rebound leachate monitoring period will be initiated, as described below. While in the leachate rebound monitoring period, the systems will be maintained in working order such that if warranted, based on leachate monitoring, one or both systems can be reactivated.

Since June 2012, quarterly leachate monitoring events have occurred during the pulse-off mode except for the second quarter monitoring events starting in 2014 in which case the systems were turned off three days in advance of starting the monitoring event.

Rebound Monitoring Period

It is proposed that the leachate rebound monitoring period will extend for at least one year with leachate sampling occurring during the ongoing quarterly monitoring events. The leachate sampling parameters will be the same as those currently analyzed for during the quarterly monitoring events. In addition, the same field measurements (pH, temperature, conductivity, oxidation reduction potential, dissolved oxygen, turbidity, ferrous iron) will be collected at each sampling location (e.g., monitoring well). For the entire length of the leachate rebound monitoring period the following monitored natural attenuation parameters will be also be analyzed for at each sampling location: alkalinity, ethane/ethene, methane, nitrite/nitrate, sulfate/sulfide, and total organic carbon.

Actions required during the rebound monitoring period will be based on quarterly monitoring results from all the monitoring wells in the current monitoring network. Within 72 hours of receiving the laboratory data package, HSC will provide a verbal or email summary of the results to USEPA/IEPA. Based on the discussion with USEPA/IEPA, the following actions will be considered in consultation with USEPA/IEPA:

- 1) If COC concentrations are less than the PRGs, rebound monitoring will continue for at least a one year rebound monitoring period. In this case, the ultimate duration of the leachate rebound monitoring period will be determined in consultation with USEPA/IEPA.
- 2) If COC concentrations exceed a PRG at the southern property boundary monitoring wells (GMZ02, GMZ03, GMZ04, SMW20, SMW21), then the Phase 1 system will be reactivated.
- 3) If COC concentrations exceed a PRG at the interior monitoring wells (RAMW03, RAMW04, RAMW05, RAMW06, RAMW07, RAMW08), then in consultation with USEPA/IEPA, the following will be evaluated to determine appropriate action:

- a) The concentration will be evaluated with respect to protectiveness of the GMZ boundary.
 - b) The observed concentration trend (i.e., is the concentration fluctuating or is an increasing trend developing) will also be evaluated, to the extent practicable.
 - c) The information will be reviewed, and a decision will be made, in consultation with USEPA/IEPA, about whether the systems should be returned to the pulse-on mode.
- 4) If COC concentrations in monitoring wells outside the inferred influence of the systems to the west (GMZ01, PMW01, PMW02, RAM01, RAM02, SWM04, SWM08) and to the northeast (SMW19) appear to be affected by the shutdown of the systems, then in consultation with USEPA/IEPA, the following will be evaluated to determine appropriate action:
- a) The observed concentration trend (i.e., is the concentration fluctuating or is an increasing trend developing) will be evaluated, to the extent practicable.
 - b) The information will be reviewed, and a decision will be made, in consultation with USEPA/IEPA, about whether the systems should be returned to the pulse-on mode.

If components of the systems need to be re-started, a qualified AECOM person will re-start as soon as possible but no later than two weeks after concurrence from USEPA/IEPA.

During this rebound monitoring period, the quarterly monitoring reports will continue to be submitted to USEPA/IEPA as a continuation of the current leachate monitoring program. The reports will include an evaluation of the rebound monitoring results as will the annual report. If PRGs are achieved during all four quarters of the one year rebound monitoring period, HSC in consultation with USEPA/IEPA, will determine if leachate rebound monitoring period needs to be extended.

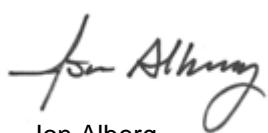
Please contact either of the undersigned with any questions you may have on the information provided in this request letter to shutdown the remediation systems and perform rebound monitoring.

Prepared by:



Peter Hollatz, P.E.
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Reviewed by:



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cc: Mr. John Wolski – Raytheon Technologies Corporation
Ms. Kristen Sherman – Raytheon Technologies Corporation
Mr. Larry Carlson – Collins Aerospace
Ms. Diane Bellantoni – Collins Aerospace

Attachments:

Figure 1 – Facility Location Map

Figure 2 – Work Progression Flow Diagram

Figure 3 – Performance Standard Concept

Figure 4 – HSC Plant 1/2 Facility

Figure 5 – Summary of May 2021 GMZ and PMW Wells Above the Preliminary Remediation Goal

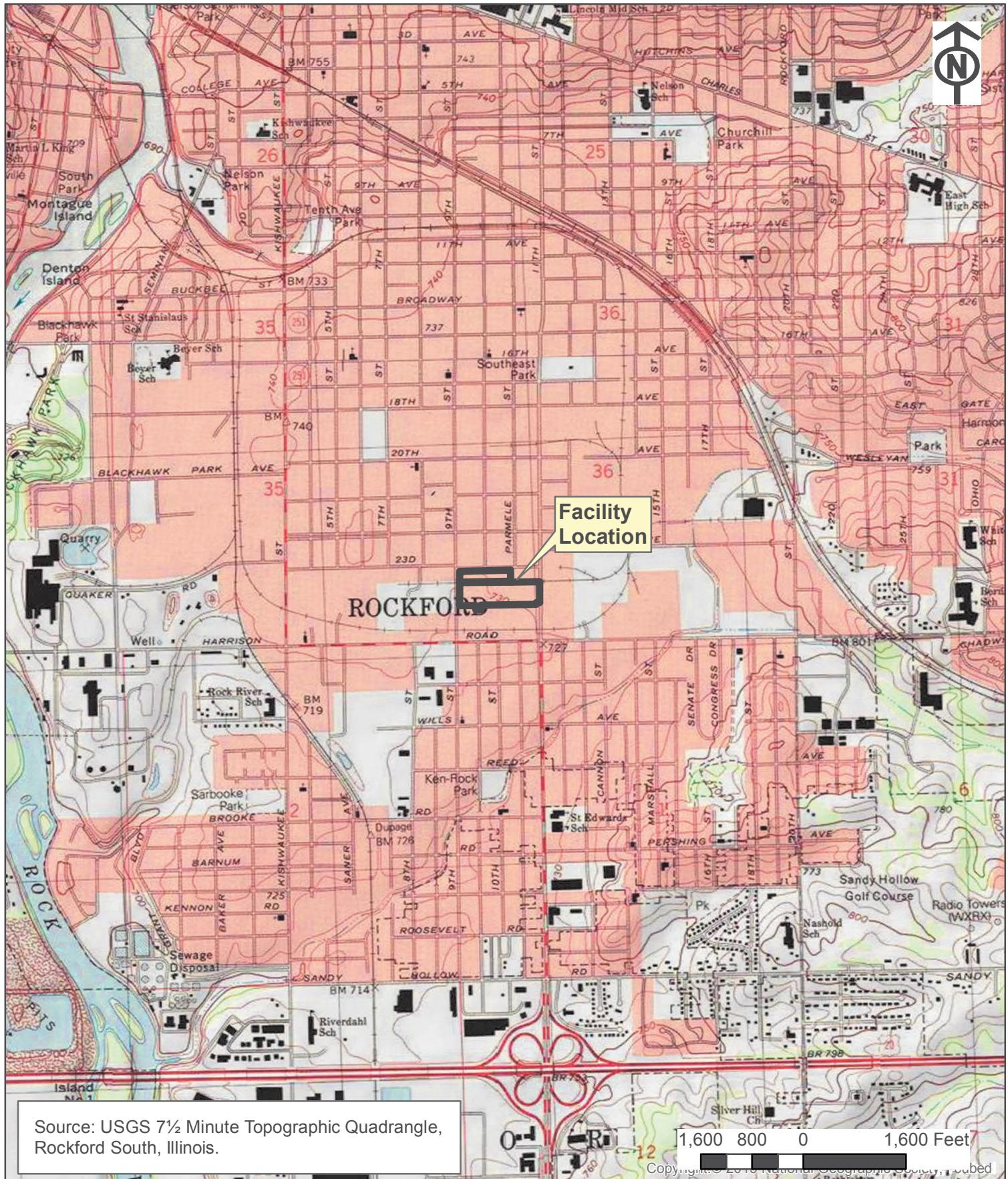
Table 1 – First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results – Southern Facility Property Boundary Wells

Table 2 – First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results – Performance Wells

Attachment A – Groundwater Management Zone Preliminary Conceptual Site Model

Attachment B – Performance Monitoring Well Graphs

Figures



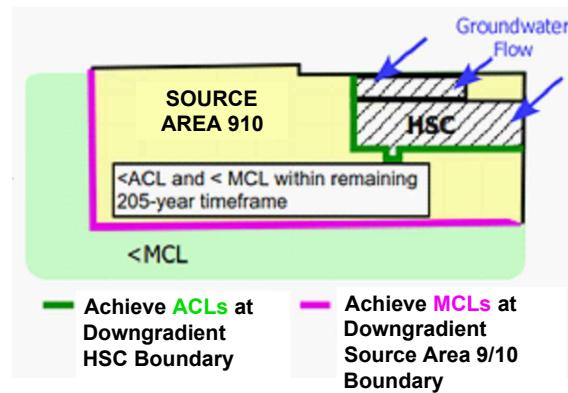
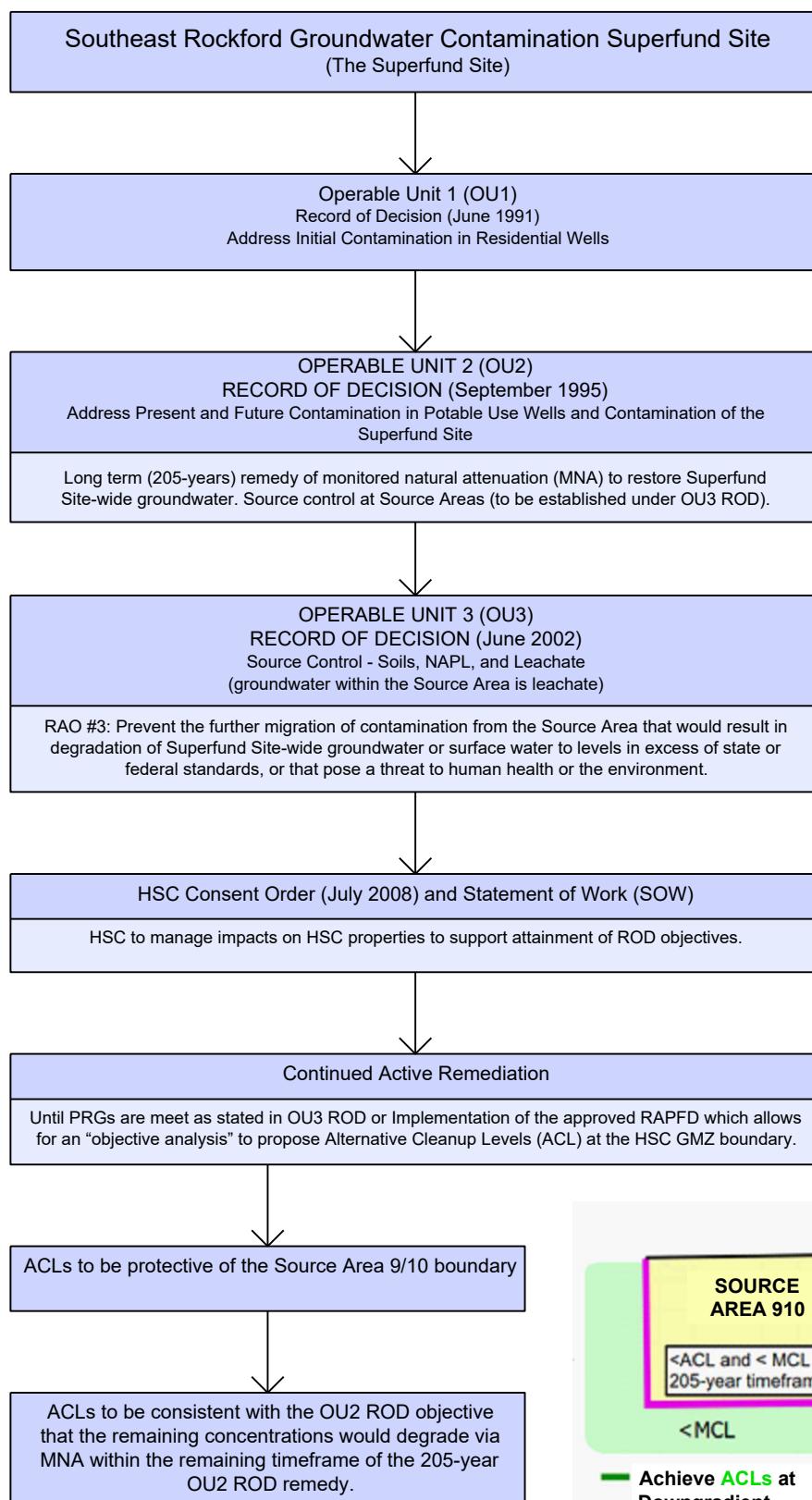
Facility Location Map
Area 9/10 Remedial Action
Southeast Rockford Groundwater
Contamination Superfund Site
Rockford, IL

FIGURE NUMBER

1

DRAWN BY:	DATE:	PROJECT NUMBER:	FIGURE NUMBER:
CC	8/2/2018	60562097.4213	1 of 1

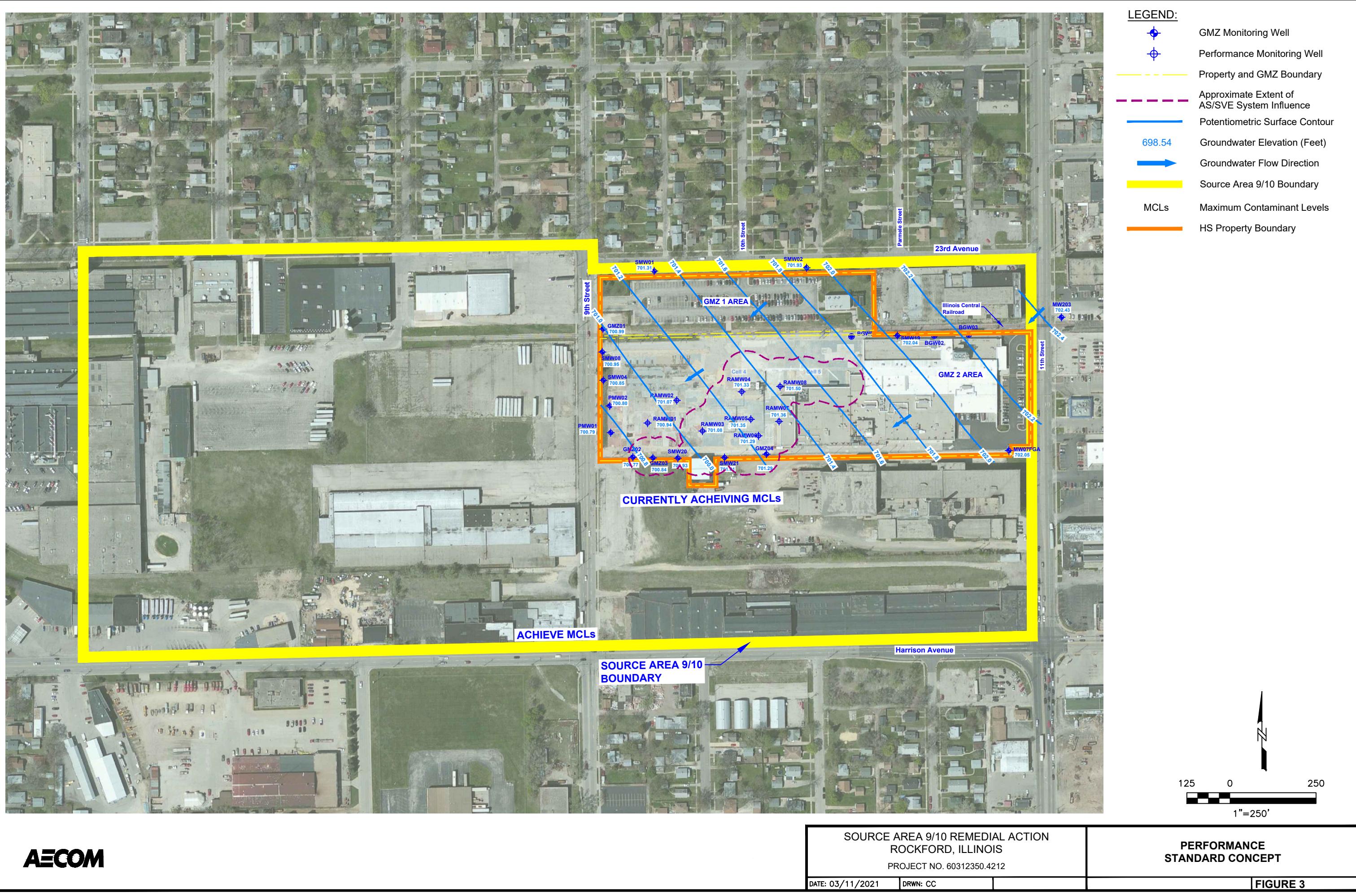
FIGURE 2
WORK PROGRESS FLOW DIAGRAM

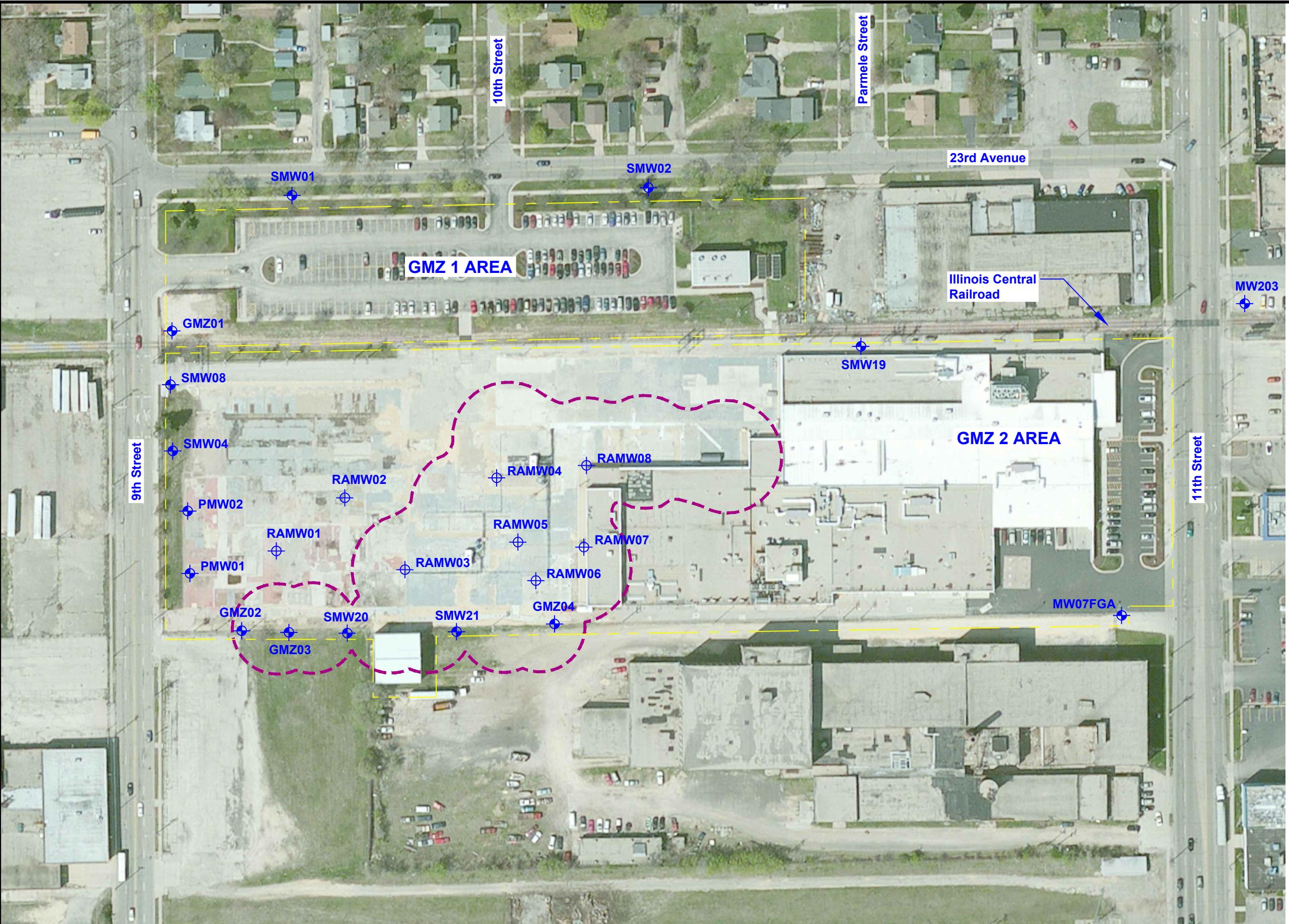


ABBREVIATIONS:

ROD - Record of Decision
 RAO - Remedial Action Objective
 HSC - Hamilton Sundstrand Corporation
 PRGs - Preliminary Remediation Goals
 RAPFD - Remedial Action Process Flow Diagram
 GMZ - Groundwater Management Zone
 MCL - Maximum Contaminant Limit

Note: MCLs are currently being achieved at the HSC southern property boundary.





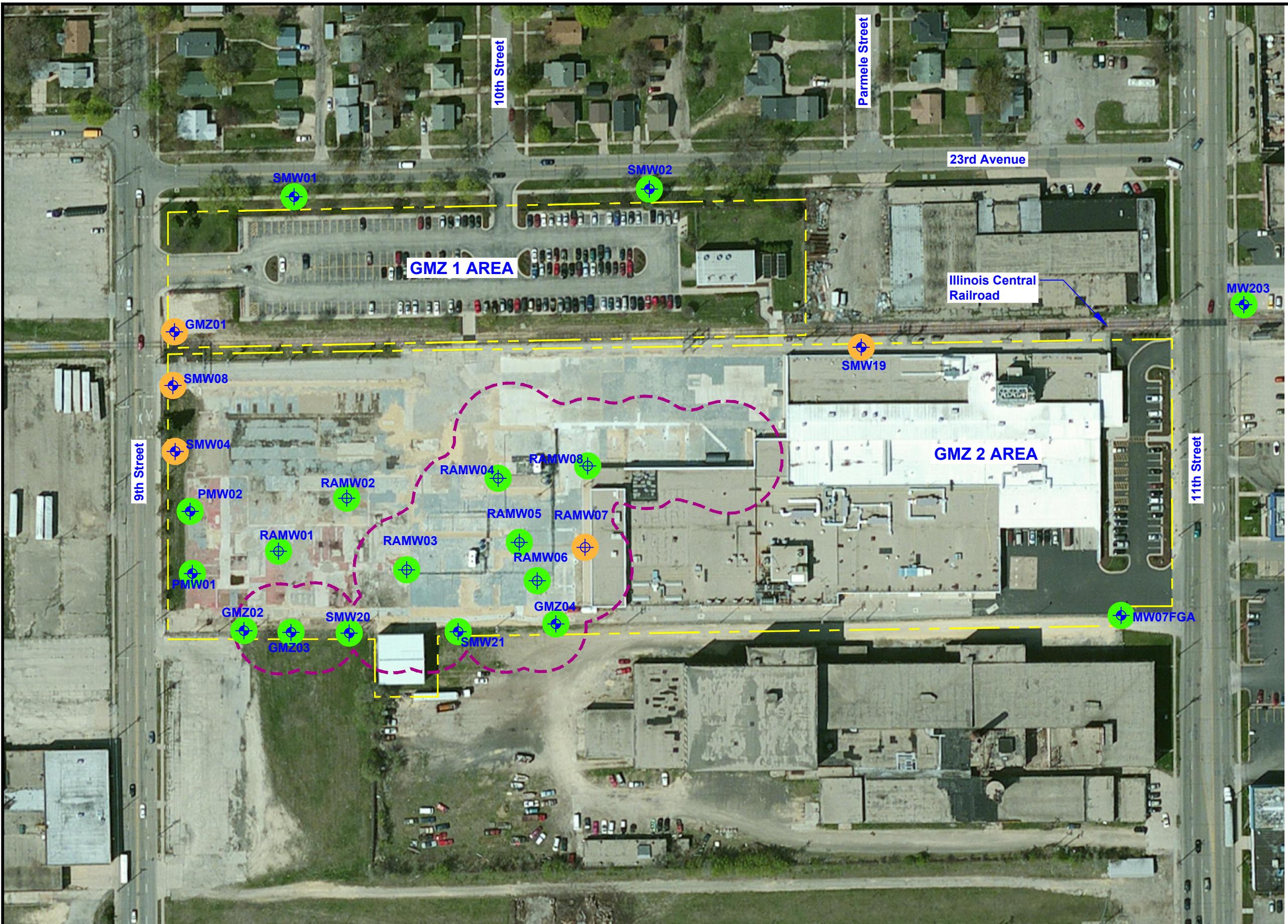
LEGEND:

- GMZ Monitoring Well
- Performance Monitoring Well
- Site and GMZ Boundary
- Approximate Extent of AS/SVE System Influence

AREA 9/10 REMEDIAL ACTION
ROCKFORD, ILLINOIS
PROJECT NO. 60562097.4213

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HSC PLANT 1/2 FACILITY



LEGEND:

- GMZ Monitoring Well
- Performance Monitoring Well
- Site and GMZ Boundary
- Approximate Extent of AS/SVE System Influence
- At Least one Constituent of Concern above a Preliminary Remediation Goal
- No Constituent of Concern above a Preliminary Remediation Goal

AREA 9/10 REMEDIAL ACTION
ROCKFORD, ILLINOIS
PROJECT NO. 60595520.4211

SUMMARY OF MAY 2021 GMZ AND PMW
WELLS ABOVE THE
PRELIMINARY REMEDIATION GOAL

AECOM

Tables

Table 1
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Southern Facility Property Boundary Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1'-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^A _c	0.005 ^A _c	0.007 ^{b,c} _a	0.7 ^A	0.005 ^A _c	0.07 ^A _c	0.1 ^A _c	0.2 ^{b,c} _a	0.005 ^A _c	0.7 ^A _c	0.005 ^A _c	1.0 ^A _c	0.002 ^A _c	0.0077 ^A _c
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GMZ02	HS SER-GMZ02-020712	7-Feb-12		0.00034 NJ	0.0010 U	0.0010 U	0.0016	0.0010 U	0.00074 NJ	0.0010 U	0.0011	0.0010 U	0.0010 U	0.00066 NJ	0.0010 U	0.0010 U	-
	HS SER-GMZ02-052212	22-May-12		0.00020 NJ	0.0010 U	0.0010 U	0.0023	0.0010 U	0.00022 NJ	0.0010 U	0.0012	0.0010 U	0.0010 U	0.00057 NJ	0.0010 U	0.0010 U	-
	HS SER-GMZ02-080612	6-Aug-12		0.0010 UJ	0.0010 UJ	0.0010 UJ	0.0016 J	0.0010 UJ	0.0010 UJ	0.0010 UJ	0.00070 NJ	0.0010 U	0.0010 U	0.00053 NJ	0.0010 UJ	0.0010 UJ	-
	HS SER-GMZ02-111312	13-Nov-12		0.0010 U	0.0010 U	0.00027 NJ	0.0048	0.0010 U	0.00065 NJ	0.0010 U	0.0037	0.0010 U	0.0010 U	0.00033 NJ	0.0010 U	0.0010 U	-
	HS SER-GMZ02-021213	12-Feb-13		0.0010 U	0.0010 U	0.00025 J	0.0300	0.0010 U	0.00076 J	0.0010 U	0.0067	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ02-050813	8-May-13		0.00039 J	0.0010 U	0.0010 U	0.0021	0.0010 U	0.00039 J	0.0010 U	0.0067	0.0010 U	0.0010 U	0.00035 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-080813	8-Aug-13		0.00028 J	0.0010 U	0.00021 J	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0026	0.0010 U	0.0010 U	0.00057 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-120413	4-Dec-13		0.00056 J	0.0010 U	0.0010 U	0.0014	0.0010 U	0.0010 U	0.0010 U	0.0042	0.0010 U	0.0010 U	0.00075 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-022614	26-Feb-14		0.00025 J	0.0010 U	0.00074 J	0.0036	0.0010 U	0.00096 J	0.0010 U	0.0094	0.0010 U	0.0010 U	0.00063 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-050714	7-May-14		0.0010 J	0.0020 U	0.0010 U	0.0020	0.0010 U	0.00034 J	0.0010 U	0.0027	0.0010 U	0.0005 U	0.00061 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-080614	6-Aug-14		0.00038 J	0.0020 U	0.0010 U	0.0021	0.0010 U	0.00073 J	0.0010 U	0.0067	0.0010 U	0.0010 U	0.00062 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-120914	9-Dec-14		0.00037 J	0.0020 U	0.0010 U	0.0016	0.0010 U	0.00074 J	0.0010 U	0.0065	0.0010 U	0.0010 U	0.00064 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-021915	19-Feb-15		0.0010 U	0.0020 U	0.0010 U	0.0028	0.0010 U	0.00074 J	0.0010 U	0.0039	0.0010 U	0.0010 U	0.00038 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-051315	13-May-15		0.0010 U	0.0020 U	0.0010 U	0.0018	0.0010 U	0.00042 J	0.0010 U	0.0041	0.0010 U	0.0010 U	0.00057 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-080515	5-Aug-15		0.00040 J	0.0020 U	0.0010 U	0.0016	0.0010 U	0.00057 J	0.0010 U	0.0030	0.0010 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-120915	9-Dec-15		0.0010 U	0.0020 U	0.0010 U	0.0023	0.0010 U	0.00059 J	0.0010 U	0.0065	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ02-020916	9-Feb-16		0.0010 U	0.0020 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ02-051816	18-May-16		0.0010 U	0.0020 U	0.0010 U	0.0015	0.0010 U	0.00042 J	0.0010 U	0.0026	0.0010 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-080316	3-Aug-16		0.00032 J	0.0020 U	0.0010 U	0.0013	0.0010 U	0.00062 J	0.0010 U	0.0019	0.0010 U	0.0010 U	0.00046 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-120716	7-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.00081 J	0.0010 U	0.00046 J	0.0010 U	0.0016	0.0010 U	0.0010 U	0.00057 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-020817	8-Feb-17		0.0010 U	0.0020 U	0.0010 U	0.00067 J	0.0010 U	0.0010 U	0.0010 U	0.00072 J	0.0010 U	0.0010 U	0.00031 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-051117	11-May-17		0.0010 U	0.0020 U	0.0010 U	0.00077 J	0.0010 U	0.0010 U	0.0010 U	0.00080 J	0.0010 U	0.0010 U	0.00058 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-080917	9-Aug-17		0.0010 U	0.0020 U	0.0010 U	0.00074 J	0.0010 U	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ02-121417	14-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.00067 J	0.0010 U	0.0010 U	0.0010 U	0.00096 J	0.0010 U	0.0010 U	0.00081 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-020818	8-Feb-18		0.0010 U	0.0020 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.00035 J	0.0010 U	0.0010 U	0.00050 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-050218	2-May-18		0.0010 U	0.0020 U	0.0010 U	0.00055 J	0.0010 U	0.0010 U	0.0010 U	0.00047 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ02-080918	9-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ02-121318	13-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.00099 J	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.00091 J	0.0010 U	0.0010 U	-
	HS SER-GMZ02-021419	14-Feb-19		0.0010 U	0.0020 U												

Table 1
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Southern Facility Property Boundary Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1'-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^A _c	0.005 ^A _c	0.007 ^{b,c} _a	0.7 ^A	0.005 ^A _c	0.07 ^A _c	0.1 ^A _c	0.2 ^{b,c} _a	0.005 ^A _c	0.7 ^A _c	0.005 ^A _c	1.0 ^A _c	0.002 ^A _c	0.0077 ^A _c
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GMZ03	HS SER-GMZ03-050716	6-Feb-12		0.0010 U	0.0010 U	0.0010 U	0.00026 NJ	0.0010 U	0.00052 NJ	0.0010 U	0.00062 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050717	21-May-12		0.0010 U	0.0010 U	0.0010 U	0.00029 NJ	0.0010 U	0.00019 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050718	6-Aug-12		0.0010 U *	0.0010 U	0.0010 U	0.00095 NJ	0.0010 U	0.00067 NJ	0.0010 U	0.00054 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050719	12-Nov-12		0.0010 U	0.0010 U	0.0010 U	0.0150	0.0010 U	0.00084 NJ	0.0010 U	0.0018	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050720	12-Feb-13		0.0010 U	0.0010 U	0.0010 U	0.0035	0.0010 U	0.00064 J	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050721	8-May-13		0.0010 U	0.0010 U	0.0010 U	0.00072 J	0.0010 U	0.00042 J	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050722	8-May-13	Field Duplicate	0.0010 U	0.0010 U	0.0010 U	0.00071 J	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050723	7-Aug-13		0.0010 U	0.0010 U	0.0010 U	0.0014	0.0010 U	0.00048 J	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050724	7-Aug-13	Field Duplicate	0.0010 U	0.0010 U	0.0010 U	0.0013	0.0010 U	0.00043 J	0.0010 U	0.00037 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-120413	4-Dec-13		0.0010 U	0.0010 U	0.0010 U	0.00038 J	0.0010 U	0.0010 U	0.0010 U	0.00084 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-120413	4-Dec-13	Field Duplicate	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00076 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-022614	26-Feb-14		0.0010 U	0.0010 U	0.0010 U	0.00051 J	0.0010 U	0.00062 J	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-022614	26-Feb-14	Field Duplicate	0.0010 U	0.00034 JB	0.0010 U	0.00056 J	0.0010 U	0.00058 J	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-050714	7-May-14		0.0010 U	0.0020 U	0.0010 U	0.0013	0.0010 U	0.00057 J	0.0010 U	0.0010	0.0010 U	0.0005 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-050714	7-May-14	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0012	0.0010 U	0.00062 J	0.0010 U	0.0010	0.0010 U	0.0005 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-080614	6-Aug-14		0.0010 U	0.0020 U	0.0010 U	0.00038 J	0.0010 U	0.0010 U	0.0010 U	0.00098 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-080614	6-Aug-14	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00037 J	0.0010 U	0.00042 J	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-120914	9-Dec-14		0.0010 U	0.0020 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.00098 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-120914	9-Dec-14	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.00093 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-021815	18-Feb-15		0.0010 U	0.0020 U	0.0010 U	0.00037 J	0.0010 U	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-021815	18-Feb-15	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.00090 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-051315	13-May-15		0.0010 U	0.0020 U	0.0010 U	0.00076 J	0.0010 U	0.00050 J	0.0010 U	0.00090 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-051315	13-May-15	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00078 J	0.0010 U	0.00055 J	0.0010 U	0.00089 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-080515	5-Aug-15		0.0010 U	0.0020 U	0.0010 U	0.00028 J	0.0010 U	0.0010 U	0.0010 U	0.00035 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-080515	5-Aug-15	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00026 J	0.0010 U	0.0010 U	0.0010 U	0.00036 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-120915	9-Dec-15		0.0010 U	0.0020 U	0.0010 U	0.00034 J	0.0010 U	0.0010 U	0.0010 U	0.00039 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-120915	9-Dec-15	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00035 J	0.0010 U	0.0010 U	0.0010 U	0.00039 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-021016	10-Feb-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00060 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP01-021016	10-Feb-16	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.00055 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ03-051816	18-May-16		0.0010 U	0.002												

Table 1
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Southern Facility Property Boundary Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1'-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Preliminary Remediation Goals (PRG) ^A	0.005 ^A _c	0.005 ^A _c	0.007 ^{b,c} ^A	0.7 ^A	0.005 ^A _c	0.07 ^A _c	0.1 ^A _c	0.2 _{b,c} ^A	0.005 ^A _c	0.7 ^A _c	0.005 ^A _c	1.0 ^A _c	0.002 ^A _c	0.0077 ^A _c
HS SER-GMZ03-020818		8-Feb-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00048 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-020818		8-Feb-18	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00046 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-050218		2-May-18		0.0010 U	0.0020 U	0.0010 U	0.00046 J	0.0010 U	0.0010 U	0.0010 U	0.00026 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-050218		2-May-18	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00047 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-080818		8-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-080818		8-Aug-18	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-121318		13-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-121318		13-Dec-18	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-021419		14-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-021419		14-Feb-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-052219		22-May-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-082219		22-May-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00065 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-080719		7-Aug-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-080719		7-Aug-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-121219		12-Dec-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-121219		12-Dec-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-021320		13-Feb-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-021320		13-Feb-20	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-021321		13-May-20		0.0010 U	0.0020 U	0.0010 U	0.00068 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-051320		13-May-20	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00064 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-080520		5-Aug-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-080520		5-Aug-20	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-120920		9-Dec-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-DUP01-120920		9-Dec-20	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
HS SER-GMZ03-022421		24-Feb-21		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00098
HS SER-DUP01-022421		24-Feb-21	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00099
HS SER-GMZ03-051921		19-May-21		0.0010 U	0.0020 U	0.0010 U	0.00073 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00087
HS SER-DUP01-051921		19-May-21	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00073 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00064

Table 1
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Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1'-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^A _c	0.005 ^A _c	0.007 ^{b,c} _a	0.7 ^A	0.005 ^A _c	0.07 ^A _c	0.1 ^A _c	0.2 ^{b,c} _a	0.005 ^A _c	0.7 ^A _c	0.005 ^A _c	1.0 ^A _c	0.002 ^{b,c} _a	0.0077 ^A _c
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GMZ04	HS SER-GMZ04-020612	6-Feb-12		0.0010 U	0.0010 U	0.0010 U	0.00032 NJ	0.0010 U	0.00040 NJ	0.0010 U	0.00039 NJ	0.00051 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-052112	21-May-12		0.0002	0.0010 U	0.0010 U	0.00069 NJ	0.0010 U	0.0019	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-080612	6-Aug-12		0.0097	0.0010 U	0.011 ^A	0.0190	0.010 U	0.078 ^A	0.010 U	0.34 J ^A	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-
	HS SER-GMZ04-111212	12-Nov-12		0.0044	0.0010 U	0.0024	0.0017	0.0014 U	0.0170	0.0014 U	0.0530	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	-
	HS SER-GMZ04-021313	13-Feb-13		0.0016	0.0010 U	0.00076 J	0.0015	0.0010 U	0.0037	0.0010 U	0.0340	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-050813	8-May-13		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00073 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-080713	7-Aug-13		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00086 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-120413	4-Dec-13		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-022614	26-Feb-14		0.0010 U	0.00052 J	0.0010 U	0.00028 J	0.0010 U	0.0013	0.0010 U	0.0025	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-050714	7-May-14		0.0010 U	0.0020 U	0.00048 J	0.0016	0.0010 U	0.0098	0.0010 U	0.0176	0.0010 U	0.0005 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-080514	5-Aug-14		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00084 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-121014	10-Dec-14		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00065 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-021815	18-Feb-15		0.0010 U	0.0020 U	0.0010 U	0.00038 J	0.0010 U	0.0023	0.0010 U	0.0036	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-051215	12-May-15		0.0010 U	0.0020 U	0.0010 U	0.0024	0.0010 U	0.0030	0.0010 U	0.0113	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-080515	5-Aug-15		0.026	0.0020 U	0.00093 J	0.0011	0.0010 U	0.0035	0.0010 U	0.0536	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-120915	9-Dec-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00050 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-020916	9-Feb-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0018	0.0010 U	0.0035	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-051716	17-May-16		0.0010 U	0.0020 U	0.0067	0.0099	0.0010 U	0.0365	0.0010 U	0.21 ^A	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-080416	4-Aug-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0022	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-120716	7-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0024	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-020817	8-Feb-17		0.0010 U	0.0020 U	0.0010 U	0.00027 J	0.0010 U	0.00046 J	0.0010 U	0.0028	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-051017	10-May-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0053	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-080817	8-Aug-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-121317	13-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00064 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-020818	8-Feb-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-050218	2-May-18		0.0010 U	0.0020 U	0.0010 U	0.00075 J	0.0010 U	0.00067 J	0.0010 U	0.0145	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-080818	8-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-121218	12-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-021319	13-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-GMZ04-052119	21-May-19		0.0010 U	0.0020 U	0.0010 U	0.0179	0.0010 U	0.0028	0.0010 U	0.0585	0.0					

Table 1
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Southern Facility Property Boundary Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1'-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SMW20	HS SER-SMW20-020612	6-Feb-12		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00021 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-052112	21-May-12		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080612	6-Aug-12		0.0010 U *	0.0010 U	0.0010 U	0.00059 NJ	0.0010 U	0.00099 NJ	0.0010 U	0.00049 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-111212	12-Nov-12		0.0010 U	0.0010 U	0.0010 U	0.00056 NJ	0.0010 U	0.0012	0.0010 U	0.00060 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-021213	12-Feb-13		0.0010 U	0.0010 U	0.0010 U	0.00062 J	0.0010 U	0.0011	0.0010 U	0.0012	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-050813	8-May-13		0.0010 U	0.0010 U	0.0010 U	0.00032 J	0.0010 U	0.0010 U	0.00084 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080713	7-Aug-13		0.0010 U	0.0010 U	0.0010 U	0.0002 J	0.0010 U	0.00029 J	0.0010 U	0.00028 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-120413	4-Dec-13		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-022614	26-Feb-14		0.0010 U	0.0010 U	0.0010 U	0.00019 J	0.0010 U	0.00041 J	0.0010 U	0.00054 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-050714	7-May-14		0.0010 U	0.0020 U	0.0010 U	0.00035 J	0.0010 U	0.00059 J	0.0010 U	0.0005	0.0010 U	0.0005 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080614	6-Aug-14		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-121014	10-Dec-14		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-021815	18-Feb-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-051215	12-May-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00043 J	0.0010 U	0.00027 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080515	5-Aug-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-120915	9-Dec-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-021016	10-Feb-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-051816	18-May-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0004 J	0.0010 U	0.00026 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080316	3-Aug-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-120716	7-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-020817	8-Feb-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-051117	11-May-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080817	8-Aug-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-121317	13-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-020818	8-Feb-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-050218	2-May-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.00027 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080818	8-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-121218	12-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-021319	13-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-052119	21-May-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080719	7-Aug-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-121219	12-Dec-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-021320	13-Feb-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-051320	13-May-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-SMW20-080520	5-Aug-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00								

Table 1
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Southern Facility Property Boundary Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1'-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^A _c	0.005 ^A _c	0.007 ^{b,c} _a	0.7 ^A	0.005 ^A _c	0.07 ^A _c	0.1 ^A _c	0.2 ^{b,c} _a	0.005 ^A _c	0.7 ^A _c	0.005 ^A _c	1.0 ^A _c	0.002 ^A _c	0.0077 ^A _c
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SMW21	HS SER-SMW21-020712	7-Feb-12		0.0010 U	0.0010 U	0.00058 NJ	0.0010 U	0.0010 U	0.00048 NJ	0.0010 U	0.0072	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-052212	22-May-12		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0039	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-080712	7-Aug-12		0.00059 NJ	0.0010 U	0.00057 NJ	0.00050 NJ	0.0010 U	0.0024	0.0010 U	0.0180	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-111212	12-Nov-12		0.00074 NJ	0.0010 U	0.0012	0.00032 NJ	0.0010 U	0.00055 NJ	0.0010 U	0.0200	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-021213	12-Feb-13		0.0019	0.0010 U	0.00057 J	0.0010 U	0.0010 U	0.00035 J	0.0010 U	0.0200	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-050813	8-May-13		0.0024	0.0010 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.0200	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-080713	7-Aug-13		0.00041 J	0.0010 U	0.00026 J	0.0010 U	0.0010 U	0.00055 J	0.0010 U	0.0041	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-120413	4-Dec-13		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0031	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-022614	26-Feb-14		0.0026	0.0010 U	0.0022	0.00076 J	0.0010 U	0.0051	0.0010 U	0.0360	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-050714	7-May-14		0.0010 U	0.0020 U	0.0010 U	0.0017	0.0010 U	0.00080 J	0.0010 U	0.0061	0.0010 U	0.0005 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-080514	5-Aug-14		0.00087 J	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0093	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-121014	10-Dec-14		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00036 J	0.0010 U	0.0031	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-021815	18-Feb-15		0.00037 J	0.0020 U	0.0010 U	0.00047 J	0.0010 U	0.0028	0.0010 U	0.0156	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-051215	12-May-15		0.00022 J	0.0020 U	0.00069 J	0.00098 J	0.0010 U	0.0054	0.0010 U	0.0315	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-080515	5-Aug-15		0.00084 J	0.0020 U	0.0010 U	0.00025 J	0.0010 U	0.00099 J	0.0010 U	0.0100	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-120915	9-Dec-15		0.00028 J	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00068 J	0.0010 U	0.0052	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-021016	10-Feb-16		0.00029 J	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00096 J	0.0010 U	0.0105	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-051816	18-May-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00059 J	0.0010 U	0.0052	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-080316	3-Aug-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00059 J	0.0010 U	0.0034	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-120716	7-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.00069 J	0.0010 U	0.0021	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-020717	7-Feb-17		0.0010 U	0.0020 U	0.0010 U	0.00022 J	0.0010 U	0.00053 J	0.0010 U	0.0043	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-051017	10-May-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0018	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-080817	8-Aug-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0014	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-121317	13-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0046	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-020818	8-Feb-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0049	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-050218	2-May-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0046	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-080818	8-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0025	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-121218	12-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0020	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-SMW21-021319	13-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0		

Table 2
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMW01	HS SER-RAMW01-020812	8-Feb-12		0.002	0.0010 U	0.0016	0.035	0.0010 U	0.003	0.0010 U	0.013	0.0010 U	0.0010 U	0.014^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-052312	23-May-12		0.0018	0.0010 U	0.0010 U	0.036	0.0010 U	0.0031	0.0010 U	0.0099	0.00064 NJ	0.0010 U	0.023^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-080812	8-Aug-12		0.0013	0.0010 U	0.0010 U	0.032	0.0010 U	0.0032	0.0010 U	0.0051	0.00064 NJ	0.0010 U	0.019^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-1111512	14-Nov-12		0.0013	0.0010 U	0.00055 NJ	0.0270	0.0010 U	0.0030	0.0010 U	0.0097	0.00070 NJ	0.0010 U	0.0120^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-021313	13-Feb-13		0.0019	0.0010 U	0.00042 J	0.0260	0.0010 U	0.0042	0.0010 U	0.0100	0.00080 J	0.0010 U	0.0150^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-050813	8-May-13		0.0014	0.0010 U	0.0013	0.0120	0.0010 U	0.0030	0.0010 U	0.0073	0.0010 U	0.0010 U	0.0120^a	0.0010 U	0.00029 J	-
	HS SER-RAMW01-080713	7-Aug-13		0.0017	0.0010 U	0.0010 U	0.0190	0.0010 U	0.0024	0.0010 U	0.0075	0.00048 J	0.0010 U	0.0120^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-120413	4-Dec-13		0.0013	0.0010 U	0.0010 U	0.0160	0.0010 U	0.0021	0.0010 U	0.0085	0.0010 U	0.0010 U	0.014^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-022814	28-Feb-14		0.0016	0.00044 JB	0.0010 U	0.0084	0.0010 U	0.0011	0.0010 U	0.0071	0.0010 U	0.0010 U	0.016^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-050714	7-May-14		0.0014	0.0020 U	0.0010 U	0.0037	0.0010 U	0.0012	0.0010 U	0.0046	0.00031 J	0.0005 U	0.0108^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-080514	5-Aug-14		0.0019	0.0010 U	0.0010 U	0.0063	0.0010 U	0.0017	0.0010 U	0.0044	0.00046 J	0.0010 U	0.0139^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-121014	10-Dec-14		0.0011	0.0020 U	0.0010 U	0.0043	0.0010 U	0.00057 J	0.0010 U	0.0042	0.0010 U	0.0010 U	0.0073^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-021715	17-Feb-15		0.00095 J	0.0020 U	0.0010 U	0.0040	0.0010 U	0.00055 J	0.0010 U	0.0029	0.0010 U	0.0010 U	0.0049	0.0010 U	0.0010 U	-
	HS SER-RAMW01-051415	14-May-15		0.0010	0.0020 U	0.0010 U	0.0030	0.0010 U	0.0010	0.0010 U	0.0029	0.0010 U	0.0010 U	0.0047	0.0010 U	0.0010 U	-
	HS SER-RAMW01-080615	6-Aug-15		0.0012	0.0020 U	0.0010 U	0.0037	0.0010 U	0.00070 J	0.0010 U	0.0039	0.00022 J	0.0010 U	0.0052^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-120915	9-Dec-15		0.0014	0.0020 U	0.0010 U	0.0025	0.0010 U	0.00045 J	0.0010 U	0.0042	0.0010 U	0.0010 U	0.0098^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-020916	9-Feb-16		0.0018	0.0020 U	0.0010 U	0.0027	0.0010 U	0.00069 J	0.0010 U	0.0059	0.00027 J	0.0010 U	0.0094^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-051716	17-May-16		0.0015	0.0020 U	0.00049 J	0.0018	0.0010 U	0.00010 U	0.0010 U	0.0059	0.0010 U	0.0010 U	0.0084^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-080416	4-Aug-16		0.00099 J	0.0020 U	0.0010 U	0.0019	0.0010 U	0.00041 J	0.0010 U	0.0042	0.0010 U	0.0010 U	0.0092^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-120816	8-Dec-16		0.00086 J	0.0020 U	0.0010 U	0.00083 J	0.0010 U	0.0010 U	0.0010 U	0.0021	0.0010 U	0.0010 U	0.0073^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-020817	8-Feb-17		0.00075 J	0.0020 U	0.0010 U	0.00054 J	0.0010 U	0.0010 U	0.0010 U	0.0017	0.0010 U	0.0010 U	0.0060^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-051017	10-May-17		0.00079 J	0.0020 U	0.0010 U	0.00065 J	0.0010 U	0.0010 U	0.0010 U	0.0015	0.0010 U	0.0010 U	0.0068^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-080917	9-Aug-17		0.00059 J	0.0020 U	0.0010 U	0.00082 J	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.0055^a	0.0010 U	0.0010 U	-
	HS SER-RAMW01-121317	13-Dec-17		0.00045 J	0.0020 U	0.0010 U	0.00057 J	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0042	0.0010 U	0.0010 U	-
	HS SER-RAMW01-020818	8-Feb-18		0.00043 J	0.0020 U	0.0010 U	0.00048 J	0.0010 U	0.0010 U	0.0010 U	0.00096 J	0.0010 U	0.0010 U	0.0030	0.0010 U	0.0010 U	-
	HS SER-RAMW01-050318	3-May-18		0.00047 J	0.0020 U	0.0010 U	0.00061 J	0.0010 U	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0022	0.0010 U	0.0010 U	-
	HS SER-RAMW01-080918	9-Aug-18		0.00061 J	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	0.0028	0.0010 U	0.0010 U	-
	HS SER-RAMW01-121218	12-Dec-18		0.00080 J	0.0020 U	0.0010 U	0.00057 J	0.0010 U	0.0010 U	0.0010 U	0.0017	0.0010 U	0.0010 U	0.0041	0.0010 U	0.0010 U	

Table 2
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMW02	HS SER-RAMW02-020812	8-Feb-12		0.00073 NJ	0.0010 U	0.00045 NJ	0.0300	0.0010 U	0.00053 NJ	0.0010 U	0.0022	0.0010 U	0.0010 U	0.0098^a	0.0010 U	0.00088 NJ	-
	HS SER-RAMW02-052312	23-May-12		0.00090 NJ	0.0010 U	0.0010 U	0.0088	0.0010 U	0.0012	0.0010 U	0.0055	0.0010 U	0.0010 U	0.0084^a	0.0010 U	0.0010 U	-
	HS SER-RAMW02-080812	8-Aug-12		0.00054 NJ	0.0010 U	0.00026 NJ	0.0150	0.0010 U	0.00077 NJ	0.0010 U	0.0058	0.0010 U	0.0010 U	0.0049	0.0010 U	0.0010 U	-
	HS SER-RAMW02-111412	13-Nov-12		0.00035 NJ	0.0010 U	0.00050 NJ	0.0240	0.0010 U	0.00056 NJ	0.0010 U	0.0072	0.0010 U	0.00042 NJ	0.0018	0.0010 U	0.0010 U	-
	HS SER-RAMW02-021213	12-Feb-13		0.00057 J	0.0010 U	0.00033 J	0.0200	0.0010 U	0.0030	0.0010 U	0.0053	0.0010 U	0.0010 U	0.0022	0.0010 U	0.00031 J	-
	HS SER-RAMW02-050713	7-May-13		0.00075 J	0.0010 U	0.00091 J	0.0150	0.0010 U	0.0023	0.0010 U	0.0060	0.0010 U	0.0010 U	0.0042	0.0010 U	0.00033 J	-
	HS SER-RAMW02-080613	6-Aug-13		0.00091 J	0.0010 U	0.0010 U	0.0200	0.0010 U	0.00094 J	0.0010 U	0.0049	0.0010 U	0.0010 U	0.0028	0.0010 U	0.0010 U	-
	HS SER-RAMW02-120313	3-Dec-13		0.0016	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00064 J	0.0010 U	0.0057	0.0010 U	0.0010 U	0.0054^a	0.0010 U	0.0010 U	-
	HS SER-RAMW02-022814	28-Feb-14		0.0012	0.00053 JB	0.0010 U	0.0025	0.0010 U	0.00041 J	0.0010 U	0.0036	0.0010 U	0.0010 U	0.0050	0.0010 U	0.0010 U	-
	HS SER-RAMW02-050614	6-May-14		0.00097 J	0.0020 U	0.0010 U	0.0047	0.0010 U	0.00073 J	0.0010 U	0.0046	0.0010 U	0.0005 U	0.0045	0.0010 U	0.0010 U	-
	HS SER-RAMW02-080514	5-Aug-14		0.0012	0.0020 U	0.0010 U	0.0042	0.0010 U	0.00069 J	0.0010 U	0.0040	0.0010 U	0.0010 U	0.0053^a	0.0010 U	0.0010 U	-
	HS SER-RAMW02-121014	10-Dec-14		0.00063 J	0.0020 U	0.0010 U	0.0033	0.0010 U	0.00033 J	0.0010 U	0.0044	0.0010 U	0.0010 U	0.0035	0.0010 U	0.0010 U	-
	HS SER-RAMW02-021715	17-Feb-15		0.00055 J	0.0020 U	0.0010 U	0.0037	0.0010 U	0.0010 U	0.0010 U	0.0031	0.0010 U	0.0010 U	0.0027	0.0010 U	0.0010 U	-
	HS SER-RAMW02-051415	14-May-15		0.00028 J	0.0020 U	0.0010 U	0.0072	0.0010 U	0.0010 U	0.0010 U	0.0020	0.0010 U	0.0010 U	0.0020	0.0010 U	0.0010 U	-
	HS SER-RAMW02-080615	6-Aug-15		0.00041 J	0.0020 U	0.0010 U	0.0029	0.0010 U	0.0010 U	0.0010 U	0.0032	0.0010 U	0.0010 U	0.0025	0.0010 U	0.0010 U	-
	HS SER-RAMW02-120915	9-Dec-15		0.00049 J	0.0020 U	0.0010 U	0.0035	0.0010 U	0.0010 U	0.0010 U	0.0041	0.0010 U	0.0010 U	0.0048	0.0010 U	0.0010 U	-
	HS SER-RAMW02-020916	9-Feb-16		0.00079 J	0.0020 U	0.0010 U	0.0045	0.0010 U	0.00044 J	0.0010 U	0.0058	0.0010 U	0.0010 U	0.0091^a	0.0010 U	0.0010 U	-
	HS SER-RAMW02-051716	17-May-16		0.00043 J	0.0020 U	0.00024 J	0.0041	0.0010 U	0.0010 U	0.0010 U	0.0039	0.0010 U	0.0010 U	0.0051^a	0.0010 U	0.0010 U	-
	HS SER-RAMW02-080416	4-Aug-16		0.00029 J	0.0020 U	0.0010 U	0.0058	0.0010 U	0.00034 J	0.0010 U	0.0026	0.0010 U	0.0010 U	0.0031	0.0010 U	0.0010 U	-
	HS SER-RAMW02-120816	8-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0014	0.0010 U	0.0010 U	0.0030	0.0010 U	0.0010 U	-
	HS SER-RAMW02-020717	7-Feb-17		0.00027 J	0.0020 U	0.0010 U	0.0018	0.0010 U	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	0.0021	0.0010 U	0.0010 U	-
	HS SER-RAMW02-051017	10-May-17		0.00039 J	0.0020 U	0.0010 U	0.0015	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.0019	0.0010 U	0.0010 U	-
	HS SER-RAMW02-080917	9-Aug-17		0.0010 U	0.0020 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.00075 J	0.0010 U	0.0010 U	0.0017	0.0010 U	0.0010 U	-
	HS SER-RAMW02-121317	13-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.00063 J	0.0010 U	0.0010 U	0.0010 U	0.00060 J	0.0010 U	0.0010 U	0.0015	0.0010 U	0.0010 U	-
	HS SER-RAMW02-020818	8-Feb-18		0.0010 U	0.0020 U	0.0010 U	0.00072 J	0.0010 U	0.0010 U	0.0010 U	0.00074 J	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-
	HS SER-RAMW02-050318	3-May-18		0.0010 U	0.0020 U	0.0010 U	0.00072 J	0.0010 U	0.0010 U	0.0010 U	0.00054 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-
	HS SER-RAMW02-080918	9-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0022	0.0010 U	0.0010 U	0.0017	0.0010 U	0.0010 U	-
	HS SER-RAMW02-121218	12-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.00099 J	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	-
	HS SER-RAMW02-021419	14-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.00082 J	0.0010 U	0.0010 U	0.001							

Table 2
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane	
Preliminary Remediation Goals (PRG) ^A				0.005 ^a _c	0.005 ^a _c	0.007 ^{b,c}	0.7 ^a	0.005 ^a _c	0.07 ^a _c	0.1 ^a _c	0.2 ^{b,c}	0.005 ^a _c	0.7 ^a _c	0.005 ^a _c	1.0 ^a _c	0.002 ^a _c	0.0077 ^a _c	
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	HS SER-RAMW03-020712	7-Feb-12		0.00029 NJ	0.0010 U	0.00037 NJ	0.0011	0.0010 U	0.00090 NJ	0.0010 U	0.0026	0.0010 U	0.0010 U	0.00080 NJ	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-052212	22-May-12		0.00024 NJ	0.0010 U	0.0010 U	0.00084 NJ	0.0010 U	0.0010 U	0.0010 U	0.0014	0.0010 U	0.0010 U	0.00073 NJ	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-080712	7-Aug-12		0.00077 NJ	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0340	0.0010 U	0.0027	0.0010 U	0.0010 U	0.0022	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-111312	13-Nov-12		0.010 U	0.0050 NJB	0.010 U	0.010 U	0.010 U	0.3300^a	0.010 U	0.0035 NJ	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	
	HS SER-RAMW03-021313	13-Feb-13		0.00071 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0029	0.0010 U	0.0032	0.0010 U	0.0010 U	0.00047 J	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-050713	7-May-13		0.00049 J	0.0010 U	0.0010 U	0.00084 J	0.0010 U	0.0014	0.0010 U	0.0017	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	-	
	HS SER-DUP02-050713	7-May-13	Field Duplicate	0.00062 J	0.0010 U	0.0010 U	0.00078 J	0.0010 U	0.0012	0.0010 U	0.0017	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-080613	6-Aug-13		0.00026 J	0.0010 U	0.0010 U	0.00042 J	0.0010 U	0.0011	0.0010 U	0.00074 J	0.0010 U	0.0010 U	0.00029 J	0.0010 U	0.0010 U	-	
	HS SER-DUP02-080613	6-Aug-13	Field Duplicate	0.0002 J	0.0010 U	0.0010 U	0.0004 J	0.0010 U	0.0010	0.0010 U	0.00074 J	0.0010 U	0.0010 U	0.00035 J	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-120313	3-Dec-13		0.00028 J	0.0010 U	0.0010 U	0.00058 J	0.0010 U	0.0010 U	0.0010 U	0.00081 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-	
	HS SER-DUP02-120313	3-Dec-13	Field Duplicate	0.00031 J	0.0010 U	0.0010 U	0.00060 J	0.0010 U	0.0010 U	0.00075 J	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-		
	HS SER-RAMW03-022814	28-Feb-14		0.00037 J	0.00039 JB	0.0010 U	0.00058 J	0.0010 U	0.00037 J	0.0010 U	0.00066 J	0.0010 U	0.0010 U	0.00098 J	0.0010 U	0.0010 U	-	
	HS SER-DUP02-022814	28-Feb-14	Field Duplicate	0.00033 J	0.00061 JB	0.0010 U	0.00060 J	0.0010 U	0.00035 J	0.0010 U	0.00065 J	0.0010 U	0.0010 U	0.00090 J	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-050614	6-May-14		0.0010 U	0.0020 U	0.0010 U	0.00082 J	0.0010 U	0.00082 J	0.0010 U	0.00091 J	0.0010 U	0.0005 U	0.0006 J	0.0010 U	0.0010 U	-	
	HS SER-DUP02-050614	6-May-14	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00082 J	0.0010 U	0.00075 J	0.0010 U	0.00078 J	0.0010 U	0.0005 U	0.00055 J	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-080514	5-Aug-14		0.00037 J	0.0010 U	0.0010 U	0.00053 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	-	
	HS SER-DUP02-080514	5-Aug-14	Field Duplicate	0.00040 J	0.0010 U	0.0010 U	0.00056 J	0.0010 U	0.0010 U	0.0010 U	0.00072 J	0.0010 U	0.0010 U	0.00082 J	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-121014	10-Dec-14		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00042 J	0.0010 U	0.0010 U	0.00054 J	0.0010 U	0.0010 U	-	
	HS SER-DUP02-121014	10-Dec-14	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00040 J	0.0010 U	0.0010 U	0.00053 J	0.0010 U	0.0010 U	-		
	HS SER-RAMW03-021715	17-Feb-15		0.00051 J	0.0020 U	0.0010 U	0.00062 J	0.0010 U	0.0010 U	0.00098 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-		
	HS SER-DUP02-021715	17-Feb-15	Field Duplicate	0.00040 J	0.0020 U	0.0010 U	0.00064 J	0.0010 U	0.0010 U	0.00091 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-		
	HS SER-RAMW03-051415	14-May-15		0.00043 J	0.0020 U	0.0010 U	0.00034 J	0.0010 U	0.00085 J	0.0010 U	0.00044 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-DUP02-051415	14-May-15	Field Duplicate	0.00036 J	0.0020 U	0.0010 U	0.00035 J	0.0010 U	0.00010 U	0.00010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-080615	6-Aug-15		0.00043 J	0.0020 U	0.0010 U	0.00039 J	0.0010 U	0.0010 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-	
	HS SER-DUP02-080615	6-Aug-15	Field Duplicate	0.00044 J	0.0020 U	0.0010 U	0.00041 J	0.0010 U	0.0010 U	0.0010 U	0.00041 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-120815	8-Dec-15		0.00028 J	0.0020 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.00049 J	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-	
	HS SER-DUP02-120815	8-Dec-15	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00046 J	0.0010 U	0.0010 U	0.0010 U	0.00061 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-	
	HS SER-RAMW03-020916	9-Feb-16		0.00033 J	0.0020 U	0.0010 U	0.00047 J	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-	
	HS SER-DUP02-020916	9-Feb-16	Field Duplicate	0.00034 J	0.0020 U	0.0010 U	0.00048 J	0.0010 U	0.0010 U	0.0010 U	0.00010 U	0.0011	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-
	HS SER-RAMW03-051716	17-May-16		0.0010 U	0.0020 U</td													

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Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMW03	HS SER-RAMW03-020717	7-Feb-17		0.00042 J	0.0020 U	0.0010 U	0.00054 J	0.0010 U	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	0.00098 J	0.0010 U	0.0010 U	-
	HS SER-DUP02-020717	7-Feb-17	Field Duplicate	0.00045 J	0.0020 U	0.0010 U	0.00058 J	0.0010 U	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	-
	HS SER-RAMW03-051017	10-May-17		0.00042 J	0.0020 U	0.0010 U	0.00063 J	0.0010 U	0.0010 U	0.0010 U	0.00047 J	0.0010 U	0.0010 U	0.00035 J	0.0010 U	0.0010 U	-
	HS SER-DUP02-051017	10-May-17	Field Duplicate	0.00057 J	0.0020 U	0.0010 U	0.00069 J	0.0010 U	0.0010 U	0.0010 U	0.00040 J	0.0010 U	0.0010 U	0.00039 J	0.0010 U	0.0010 U	-
	HS SER-RAMW03-080917	9-Aug-17		0.00036 J	0.0020 U	0.0010 U	0.00041 J	0.0010 U	0.0010 U	0.0010 U	0.00058 J	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	-
	HS SER-DUP02-080917	9-Aug-17	Field Duplicate	0.00035 J	0.0020 U	0.0010 U	0.00041 J	0.0010 U	0.0010 U	0.0010 U	0.00057 J	0.0010 U	0.0010 U	0.00096 J	0.0010 U	0.0010 U	-
	HS SER-RAMW03-121317	13-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00070 J	0.0010 U	0.0010 U	-
	HS SER-DUP02-121317	13-Dec-17	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00076 J	0.0010 U	0.0010 U	-
	HS SER-RAMW03-020818	8-Feb-18		0.00027 J	0.0020 U	0.0010 U	0.00045 J	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	-
	HS SER-DUP02-020818	8-Feb-18	Field Duplicate	0.00044 J	0.0020 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-
	HS SER-RAMW03-050218	2-May-18		0.0010 U	0.0020 U	0.0010 U	0.00049 J	0.0010 U	0.0010 U	0.0010 U	0.00032 J	0.0010 U	0.0010 U	0.00059 J	0.0010 U	0.0010 U	-
	HS SER-DUP02-050218	2-May-18	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	0.0010 U	0.00031 J	0.0010 U	0.0010 U	0.00054 J	0.0010 U	0.0010 U	-
	HS SER-RAMW03-080818	8-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP02-080818	8-Aug-18	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW03-121218	12-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00091 J	0.0010 U	0.0010 U	-
	HS SER-DUP02-121218	12-Dec-18	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW03-021419	14-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-
	HS SER-DUP02-021419	14-Feb-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-
	HS SER-RAMW03-052219	22-May-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP02-052219	22-May-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00061 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW03-080719	7-Aug-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00058 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP02-080719	7-Aug-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00060 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW03-121119	11-Dec-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00093 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-
	HS SER-DUP02-121119	11-Dec-19	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00099 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-
	HS SER-RAMW03-021420	14-Feb-20		0.0010 U	0.0020 U	0.0010 U	0.00058 J	0.0010 U	0.0010 U	0.0010 U	0.00082 J	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-
	HS SER-DUP02-021420	14-Feb-20	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	-
	HS SER-RAMW03-051320	13-May-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00096 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP02-051320	13-May-20	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW03-080620	6-Aug-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-DUP02-080620	6-Aug-20	Field Duplicate	0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.								

Table 2
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane		
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a		
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
RAMW04	HS SER-RAMW04-020712	7-Feb-12		0.00039 NJ	0.0010 U	0.00066 NJ	0.0011	0.0010 U	0.00038 NJ	0.0010 U	0.0058	0.0010 U	0.0010 U	0.00061 NJ	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-052212	22-May-12		0.00036 NJ	0.0010 U	0.0010 U	0.0011	0.0010 U	0.00027 NJ	0.0010 U	0.0030	0.0010 U	0.0010 U	0.00059 NJ	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-080812	8-Aug-12		0.0010 U	0.0010 U	0.0010 U	0.00087 NJ	0.0010 U	0.0010 U	0.0010 U	0.0015	0.0010 U	0.0010 U	0.00052 NJ	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-111312	13-Nov-12		0.00017 NJ	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	0.00053 NJ	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-050813	8-May-13		0.0010 U	0.0010 U	0.0010 U	0.00034 J	0.0010 U	0.0010 U	0.0010 U	0.00064 J	0.0010 U	0.0010 U	0.00055 J	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-080613	6-Aug-13		0.0010 U	0.0010 U	0.0010 U	0.0005 J	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.00055 J	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-120313	3-Dec-13		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00062 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-022814	28-Feb-14		0.00026 J	0.0010 U	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U	0.0034	0.0010 U	0.0010 U	0.00071 J	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-050614	6-May-14		0.0010 U	0.002 U	0.0010 U	0.00051 J	0.0010 U	0.0010 U	0.0010 U	0.00067 J	0.0010 U	0.0005 U	0.00054 J	0.0010 U	0.0010 U	-		
	HS SER-RAMW04-080414	4-Aug-14		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0007 J	0.0010 U	0.0010 U	-	0.0010 U	-		
	HS SER-RAMW04-121014	10-Dec-14		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00034 J	0.0010 U	0.0010 U	0.00040 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-021715	17-Feb-15		0.0010 U	0.0020 U	0.0010 U	0.00046 J	0.0010 U	0.0010 U	0.00045 J	0.0010 U	0.0010 U	0.00042 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-051415	14-May-15		0.0010 U	0.0020 U	0.0010 U	0.00027 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0004 J	0.0010 U	0.0010 U	-	0.0010 U	-		
	HS SER-RAMW04-080715	7-Aug-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00039 J	0.0010 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-120815	8-Dec-15		0.0010 U	0.0020 U	0.0010 U	0.00053 J	0.0010 U	0.0010 U	0.00055 J	0.0010 U	0.0010 U	0.00072 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-020916	9-Feb-16		0.00031 J	0.0020 U	0.0010 U	0.00082 J	0.0010 U	0.00065 J	0.0010 U	0.00075 J	0.0010 U	0.00087 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-051716	17-May-16		0.0010 U	0.0020 U	0.0010 U	0.00049 J	0.0010 U	0.0010 U	0.00079 J	0.0010 U	0.0010 U	0.00055 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-080316	3-Aug-16		0.00032 J	0.0020 U	0.0010 U	0.00047 J	0.0010 U	0.0010 U	0.00071 J	0.0010 U	0.0010 U	0.00093 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-120716	7-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.00036 J	0.0010 U	0.0010 U	0.00052 J	0.0010 U	0.0010 U	0.00079 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-020717	7-Feb-17		0.00037 J	0.0020 U	0.0010 U	0.00057 J	0.0010 U	0.0010 U	0.00054 J	0.0010 U	0.0010 U	0.00089 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-051017	10-May-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00038 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-080817	8-Aug-17		0.0010 U	0.0020 U	0.0010 U	0.00024 J	0.0010 U	0.0010 U	0.00035 J	0.0010 U	0.0010 U	0.00065 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-121317	13-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00061 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-020718	7-Feb-18		0.00030 J	0.0020 U	0.0010 U	0.00054 J	0.0010 U	0.0010 U	0.00080 J	0.0010 U	0.0010 U	0.00090 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-050218	2-May-18		0.0010 U	0.0020 U	0.0010 U	0.00021 J	0.0010 U	0.0010 U	0.00031 J	0.0010 U	0.0010 U	0.00051 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-080818	8-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00065 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-121218	12-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	0.0010 U	-
	HS SER-RAMW04-021419	14-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.00072 J	0.0010 U	0.0010 U	0.00073 J	0.0010 U	0.0010 U	0.00094 J	0.0010 U	0.0010 U	-	0.0010 U	-	
	HS SER-RAMW04-052219	22-May-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	0.0010 U	-
	HS SER-RAMW04-080719	7-Aug-19</																	

Table 2
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMW05	HS SER-RAMW05-020912	9-Feb-12	Field Duplicate	0.015 NJ^a	0.020 U	0.051^a	0.020 U	0.020 U	0.018 NJ	0.020 U	0.49^a	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	-
	HS SER-RAMW05-052412	24-May-12		0.019^a	0.014 U	0.0067 NJ	0.0031 NJ	0.014 U	0.0040 NJ	0.014 U	0.41^a	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	-
	HS SER-RAMW05-080912	9-Aug-12		0.0066 NJ^a	0.010 U	0.0062 NJ	0.010 U	0.010 U	0.010 U	0.010 U	0.1700	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-
	HS SER-DUP06-080912	9-Aug-12		0.0067 NJ^a	0.010 U	0.0047 NJ	0.010 U	0.010 U	0.010 U	0.010 U	0.1700	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-
	HS SER-RAMW05-111412	14-Nov-12		0.0150^a	0.0051 NJB^a	0.0160^a	0.0091 U	0.0091 U	0.0091 U	0.0091 U	0.2300^a	0.0091 U	0.0091 U	0.0091 U	0.0091 U	0.0091 U	-
	HS SER-RAMW05-021313	13-Feb-13		0.0077^a	0.0033 U	0.0030 J	0.0012 J	0.0033 U	0.00081 J	0.0033 U	0.0790	0.0033 U	0.0033 U	0.0033 U	0.0033 U	0.0033 U	-
	HS SER-RAMW05-050713	7-May-13		0.0080^a	0.0029 U	0.0230^a	0.0026 J	0.0029 U	0.0028 J	0.0029 U	0.1700	0.0029 U	0.0029 U	0.0029 U	0.0029 U	0.0029 U	-
	HS SER-RAMW05-080613	6-Aug-13		0.00093 J	0.0010 U	0.0010 U	0.00037 J	0.0010 U	0.00048 J	0.0010 U	0.0077	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-120313	3-Dec-13		0.0012	0.0010 U	0.00029 J	0.00053 J	0.0010 U	0.0028	0.0010 U	0.0210	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-022814	28-Feb-14		0.014^a	0.0010 U	0.0026 J	0.0038 J	0.0010 U	0.0200	0.0010 U	0.37^a	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-050614	6-May-14		0.0057^a	0.0020 U	0.00081 J	0.00094 J	0.0010 U	0.0032	0.0010 U	0.0800	0.0010 U	0.0005 U	0.00029 J	0.0010 U	0.0010 U	-
	HS SER-RAMW05-080414	4-Aug-14		0.0016	0.0020 U	0.0010 U	0.00064 J	0.0010 U	0.0026	0.0010 U	0.0198	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-121014	10-Dec-14		0.0035	0.0020 U	0.0022	0.00097 J	0.0010 U	0.0036	0.0010 U	0.0547	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-021715	17-Feb-15		0.0043	0.0020 U	0.0025	0.0034	0.0010 U	0.0097	0.0010 U	0.161	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-051415	14-May-15		0.0014	0.0020 U	0.00095 J	0.00046 J	0.0010 U	0.0012	0.0010 U	0.0222	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-080715	7-Aug-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00052 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-120815	8-Dec-15		0.0010 U	0.0020 U	0.0010 U	0.0016	0.0010 U	0.0040	0.0010 U	0.0265	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-020916	9-Feb-16		0.00045 J	0.0020 U	0.0010 U	0.0026	0.0010 U	0.0055	0.0010 U	0.0130	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-051716	17-May-16		0.00079 J	0.0020 U	0.00099 J	0.00069 J	0.0010 U	0.00096 J	0.0010 U	0.0143	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-080316	3-Aug-16		0.00048 J	0.0020 U	0.0010 U	0.00085 J	0.0010 U	0.0016	0.0010 U	0.0042	0.0010 U	0.0010 U	0.00025 J	0.0010 U	0.0010 U	-
	HS SER-RAMW05-120719	7-Dec-16		0.00075 J	0.0020 U	0.0010 U	0.0012	0.0010 U	0.0030	0.0010 U	0.0105	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-020717	7-Feb-17		0.0015	0.0020 U	0.0015	0.0030	0.0010 U	0.0072	0.0010 U	0.0702	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-051017	10-May-17		0.00074 J	0.0020 U	0.0010 U	0.00060 J	0.0010 U	0.00090 J	0.0010 U	0.0129	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-080817	8-Aug-17		0.0019	0.0020 U	0.0010 U	0.0011	0.0010 U	0.0026	0.0010 U	0.0290	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-121217	12-Dec-17		0.00097 J	0.0020 U	0.0010 U	0.00057 J	0.0010 U	0.0012	0.0010 U	0.0133	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-020718	7-Feb-18		0.0030	0.0020 U	0.0010 U	0.0029	0.0010 U	0.0110	0.0010 U	0.0998	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-050218	2-May-18		0.00061 J	0.0020 U	0.0010 U	0.00058 J	0.0010 U	0.00083 J	0.0010 U	0.0123	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW05-080818	8-Aug-18		0.00077 J	0.0020 U	0.0010 U	0.00094 J	0.0010 U	0.0016								

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Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMW06	HS SER-RAMW06-020912	9-Feb-12		0.0024 NJ	0.0050 U	0.014^a	0.0021 NJ	0.0050 U	0.0160	0.0050 U	0.1400	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	
	HS SER-RAMW06-052312	23-May-12		0.012^a	0.0080 U	0.0037 NJ	0.0024 NJ	0.0080 U	0.0120	0.0080 U	0.24^a	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	-
	HS SER-RAMW06-080912	9-Aug-12		0.0062 NJ^a	0.0067 U	0.0035 NJ	0.0032 NJ	0.0067 U	0.0022 NJ	0.0067 U	0.1200	0.0067 U	0.0067 U	0.0024 NJ	0.0067 U	0.0067 U	-
	HS SER-RAMW06-111412	13-Nov-12		0.0360^a	0.0097 NJBA^a	0.0280^a	0.0063 NJ	0.018 U	0.013 NJ	0.018 U	0.5400^a	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	-
	HS SER-RAMW06-021413	14-Feb-13		0.0150^a	0.0080 U	0.0090^a	0.0026 J	0.0080 U	0.0097	0.0080	0.2200^a	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	-
	HS SER-RAMW06-050713	7-May-13		0.0100^a	0.00096 JB	0.0210^a		0.0031	0.0025 U	0.0200	0.0025 U	0.1500	0.0025 U	0.0025 U	0.0025 U	0.0025 U	-
	HS SER-RAMW06-080613	6-Aug-13		0.0021 J	0.0050 U	0.0011 J	0.0031 J	0.0050 U	0.0044 J	0.0050 U	0.0660	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-
	HS SER-RAMW06-120313	3-Dec-13		0.012 J^a	0.017 U	0.013 J^a	0.0099 J	0.017 U	0.0380	0.017 U	0.84 J^a	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	-
	HS SER-RAMW06-022814	28-Feb-14		0.00036 J	0.00062 JB	0.0010 U	0.0010 U	0.0010 U	0.0052	0.0010 U	0.0120	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-050614	6-May-14		0.0024	0.0020 U	0.0049	0.0026	0.0010 U	0.0037	0.0010 U	0.259^a	0.0010 U	0.0005 U	0.00026 J	0.0010 U	0.0010 U	-
	HS SER-RAMW06-080414	4-Aug-14		0.0010 U	0.0020 U	0.00054 J	0.00088 J	0.0010 U	0.0048	0.0010 U	0.0261	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-120914	9-Dec-14		0.0010	0.0020 U	0.0087^a	0.0047	0.0010 U	0.0067	0.0010 U	0.1790	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-021815	18-Feb-15		0.0033	0.0020 U	0.0074^a	0.0039	0.0010 U	0.0217	0.0010 U	0.387^a	0.0010 U	0.0010 U	0.00043 J	0.0010 U	0.0010 U	-
	HS SER-RAMW06-051315	13-May-15		0.0019	0.0020 U	0.0060	0.0032	0.0010 U	0.0032	0.0010 U	0.145	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-080715	7-Aug-15		0.00061 J	0.0020 U	0.0056	0.0026	0.0010 U	0.0068	0.0010 U	0.0596	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-120815	8-Dec-15		0.00045 J	0.0020 U	0.00063 J	0.0041	0.0010 U	0.0064	0.0010 U	0.0457	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-020816	8-Feb-16		0.0016	0.0020 U	0.0023	0.0032	0.0010 U	0.0175	0.0010 U	0.0981	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-051616	16-May-16		0.0016	0.0020 U	0.0153^a	0.0044	0.0010 U	0.0047	0.0010 U	0.1540	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-080316	3-Aug-16		0.00051 J	0.0020 U	0.00047 J	0.0029	0.0010 U	0.0065	0.0010 U	0.0271	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-120716	7-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.00063 J	0.0010 U	0.0017	0.0010 U	0.0124	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-020717	7-Feb-17		0.0011	0.0020 U	0.0061	0.0031	0.0010 U	0.0114	0.0010 U	0.1550	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-051017	10-May-17		0.0012	0.0020 U	0.0076^a	0.0047	0.0010 U	0.0060	0.0010 U	0.296^a	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-080817	8-Aug-17		0.0010 U	0.0020 U	0.00078 J	0.0017	0.0010 U	0.0020	0.0010 U	0.0604	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-121217	12-Dec-17		0.00045 J	0.0020 U	0.00080 J	0.0031	0.0010 U	0.0037	0.0010 U	0.0917	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-020718	7-Feb-18		0.00069 J	0.0020 U	0.0010 U	0.00078 J	0.0010 U	0.0016	0.0010 U	0.126	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-050218	2-May-18		0.0010 U	0.0020 U	0.00059 J	0.0031	0.0010 U	0.0035	0.0010 U	0.0757	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-080818	8-Aug-18		0.0010 U	0.0020 U	0.0010 U	0.0013	0.0010 U	0.0025	0.0010 U	0.0142	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW06-121218	12-Dec-18		0.0010 U	0.0020 U	0.0010 U	0.0025	0.0010 U	0.0037	0.0010 U	0.0289	0.0010 U	0.0				

Table 2
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMW07	HS SER-RAMW07-020812	8-Feb-12	Field Duplicate	0.00053 NJ	0.0010 U	0.0020	0.00080 NJ	0.0010 U	0.0020	0.0010 U	0.0230	0.0010 U	0.00043 NJ	0.0031	0.0010 U	0.0010 U	-
	HS SER-RAMW07-052312	23-May-12		0.00018 NJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0092	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-	
	HS SER-RAMW07-080712	7-Aug-12		0.16^a	0.10 U	0.076 NJ^a	0.10 U	0.10 U	0.037 NJ	0.10 U	2.0^a	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	-
	HS SER-RAMW07-111412	14-Nov-12		0.3200^a	0.1800 NJBA	0.4000 J^a	0.25 U	0.25 U	0.3600^a	0.25 U	6.3000^a	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	-
	HS SER-DUP08-111412	15-Nov-12		0.3100^a	0.1600 JB^a	0.5900 J^a	0.25 U	0.25 U	0.3400^a	0.25 U	5.9000 J^a	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	-
	HS SER-RAMW07-021413	14-Feb-13		0.1100^a	0.033 U	0.0400^a	0.033 U	0.033 U	0.0360	0.033 U	0.7900^a	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	-
	HS SER-RAMW07-050713	7-May-13		0.0820^a	0.0083 JB^a	0.1600^a	0.0220	0.020 U	0.0410	0.020 U	1.0000^a	0.020 U	0.020 U	0.0082 J^a	0.020 U	0.020 U	-
	HS SER-RAMW07-080613	6-Aug-13		0.0210 J^a	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.3800^a	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	-
	HS SER-RAMW07-120313	3-Dec-13		0.0050	0.0025 U	0.00076 J	0.0015 J	0.0025 U	0.0074	0.0025 U	0.11	0.0025 U	0.0025 U	0.0026	0.0025 U	0.0025 U	-
	HS SER-RAMW07-022814	28-Feb-14		0.0043 J	0.0071 U	0.0028 J	0.0042 J	0.0071 U	0.0042 J	0.0071 U	0.2800^a	0.0071 U	0.0071 U	0.0043 J	0.0071 U	0.0071 U	-
	HS SER-RAMW07-050614	6-May-14		0.0027	0.0020 U	0.0074	0.0329	0.0010 U	0.0109	0.0010 U	0.2480^a	0.0010 U	0.0005 U	0.0084^a	0.0010 U	0.0010 U	-
	HS SER-RAMW07-080414	4-Aug-14		0.0023	0.0020 U	0.0010	0.00082 J	0.0010 U	0.0014	0.0010 U	0.0469	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-
	HS SER-RAMW07-120914	9-Dec-14		0.0043	0.0020 U	0.0056	0.0027	0.0010 U	0.0025	0.0010 U	0.1300	0.0010 U	0.0010 U	0.0011	0.0010 U	0.0010 U	-
	HS SER-RAMW07-021815	18-Feb-15		0.0029	0.0020 U	0.0040	0.0091	0.0010 U	0.0053	0.0010 U	0.149	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	-
	HS SER-RAMW07-051315	13-May-15		0.0016 J	0.010 U	0.0516^a	0.0584	0.0050 U	0.0705^a	0.0050 U	1.040^a	0.0050 U	0.0041 J	0.0032 J	0.0050 U	0.0050 U	-
	HS SER-RAMW07-080715	7-Aug-15		0.0015	0.0020 U	0.0069	0.0072	0.0010 U	0.0016	0.0010 U	0.0762	0.0010 U	0.0010 U	0.0015	0.0010 U	0.0010 U	-
	HS SER-RAMW07-120815	8-Dec-15		0.00083 J	0.0020 U	0.0042	0.0226	0.0010 U	0.0307	0.0010 U	0.1800	0.0010 U	0.0010 U	0.0027	0.0010 U	0.0010 U	-
	HS SER-RAMW07-020816	8-Feb-16		0.00089 J	0.0020 U	0.0112^a	0.0301	0.0010 U	0.0511	0.0010 U	0.255^a	0.0010 U	0.0010 U	0.0026	0.0010 U	0.0010 U	-
	HS SER-RAMW07-051616	16-May-16		0.050 U	0.10 U	1.780^a	0.170	0.050 U	0.622^a	0.050 U	16.3^a	0.050 U	0.0825	0.050 U	0.050 U	0.050 U	-
	HS SER-RAMW07-080316	3-Aug-16		0.00089 J	0.0020 U	0.0549^a	0.0756	0.0010 U	0.264^a	0.0010 U	1.19^a	0.0010 U	0.0183	0.0020	0.00073 J	0.0010 U	-
	HS SER-RAMW07-120716	7-Dec-16		0.00035 J	0.0020 U	0.00055 J	0.0040	0.0010 U	0.00062 J	0.0010 U	0.0634	0.0010 U	0.0010 U	0.0014	0.0010 U	0.0010 U	-
	HS SER-RAMW07-020617	6-Feb-17		0.0050 U	0.010 U	0.0317^a	0.0383	0.0050 U	0.0683	0.0050 U	0.906^a	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-
	HS SER-RAMW07-050917	9-May-17		0.0050 U	0.010 U	0.0337^a	0.0249	0.0050 U	0.0130	0.0050 U	1.09^a	0.0050 U	0.0015 J	0.0014 J	0.0050 U	0.0050 U	-
	HS SER-RAMW07-080817	8-Aug-17		0.00075 J	0.020 U	0.00075 J	0.0014	0.0010 U	0.0032	0.0010 U	0.0777	0.0010 U	0.0010 U	0.00085 J	0.0010 U	0.0010 U	-
	HS SER-RAMW07-121217	12-Dec-17		0.0010 U	0.0020 U	0.00048 J	0.0038	0.0010 U	0.00055 J	0.0010 U	0.0462	0.0010 U	0.0010 U	0.00083 J	0.0010 U	0.0010 U	-
	HS SER-RAMW07-020718	7-Feb-18		0.00032 J	0.0020 U	0.0070	0.0101	0.0010 U	0.0039	0.0010 U	0.465^a	0.0010 U	0.00027 J	0.00098 J	0.0010 U	0.0010 U	-
	HS SER-RAMW07-050218	2-May-18		0.0010 U	0.0020 U	0.0167^a	0.0270	0.0010 U</									

Table 2
First Quarter 2012 to Second Quarter 2021 Leachate Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane
Preliminary Remediation Goals (PRG) ^A				0.005 ^a	0.005 ^a	0.007 ^{b,c}	0.7 ^a	0.005 ^a	0.07 ^a	0.1 ^a	0.2 ^{b,c}	0.005 ^a	0.7 ^a	0.005 ^a	1.0 ^a	0.002 ^a	0.0077 ^a
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMW08	HS SER-RAMW08-020912	9-Feb-12	Field Duplicate	0.011 NJ^a	0.014 U	0.033^a	0.014 U	0.014 U	0.014 U	0.014 U	0.38^a	0.014 U	0.0150	0.016^a	0.0020 NJ	0.014 U	-
	HS SER-DUP02-020912	7-Feb-12		0.0098 J^a	0.014 U	0.033^a	0.014 U	0.014 U	0.014 U	0.014 U	0.37^a	0.014 U	0.0160	0.016^a	0.0022 NJ	0.014 U	-
	HS SER-RAMW08-052412	24-May-12		0.0021 NJ	0.0025 U	0.00075 NJ	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0840	0.0025 U	0.0025 U	0.014^a	0.0025 U	0.025 U	-
	HS SER-DUP04-052412	24-May-12		0.0018 NJ	0.0025 U	0.00067 NJ	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0800	0.0025 U	0.00047 NJ	0.014^a	0.0025 U	0.025 U	-
	HS SER-RAMW08-080912	9-Aug-12		0.0026	0.0020 U	0.0020 U	0.0046	0.0020 U	0.0020 U	0.0020 U	0.0420	0.0020 U	0.0082	0.0091^a	0.00027 NJ	0.0020 U	-
	HS SER-RAMW08-111412	14-Nov-12		0.0025 NJ	0.0066 NJB^a	0.0083 U	0.0070 NJ	0.0083 U	0.0083 U	0.0083 U	0.0440	0.0083 U	0.0034 NJ	0.0110^a	0.0083 U	0.0083 U	-
	HS SER-RAMW08-021313	13-Feb-13		0.0017 J	0.0050 U	0.0015 J	0.0088	0.0050 U	0.0078	0.0050 U	0.0300	0.0050 U	0.0019 J	0.0020 J	0.0050 U	0.0050 U	-
	HS SER-DUP02-021413	14-Feb-13		0.0018 J	0.0050 U	0.0014 J	0.0085	0.0050 U	0.0081	0.0050 U	0.0300	0.0050 U	0.0018 J	0.0024 J	0.0050 U	0.0050 U	-
	HS SER-RAMW08-050713	7-May-13		0.0012	0.0010 U	0.0090^a	0.0048	0.0010 U	0.0065	0.0010 U	0.0300	0.0010 U	0.0010	0.0051^a	0.0010 U	0.0010 U	-
	HS SER-RAMW08-080613	6-Aug-13		0.0007 J	0.0010 U	0.00022 J	0.0039	0.0010 U	0.0012	0.0010 U	0.0150	0.0010 U	0.00017 J	0.0017	0.0010 U	0.0010 U	-
	HS SER-RAMW08-120313	3-Dec-13		0.0010 U	0.0010 U	0.0010 U	0.0025	0.0010 U	0.0010 U	0.0010 U	0.0091	0.0010 U	0.0010 U	0.0013	0.0010 U	0.0010 U	-
	HS SER-RAMW08-022814	28-Feb-14		0.00023 J	0.00042 JB	0.0010 U	0.0032	0.0010 U	0.0010 U	0.0010 U	0.0025	0.0010 U	0.0010 U	0.00073 J	0.0010 U	0.0010 U	-
	HS SER-RAMW08-050614	6-May-14		0.0010 U	0.0020 U	0.0010 U	0.0021	0.0010 U	0.0015	0.0010 U	0.0013	0.0010 U	0.0005 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-080414	4-Aug-14		0.0010 U	0.0020 U	0.0010 U	0.00088 J	0.0010 U	0.0010 U	0.0010 U	0.00048 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-120914	9-Dec-14		0.0010 U	0.0020 U	0.0010 U	0.0014	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-021815	18-Feb-15		0.0010 U	0.0020 U	0.0010 U	0.0018	0.0010 U	0.0010 U	0.0010 U	0.00039 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-051315	13-May-15		0.0010 U	0.0020 U	0.0010 U	0.0009 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-080615	6-Aug-15		0.0010 U	0.0020 U	0.0010 U	0.00025 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-120715	7-Dec-15		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-020816	8-Feb-16		0.0010 U	0.0020 U	0.0010 U	0.00024 J	0.0010 U	0.0010 U	0.0010 U	0.00026 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-051616	16-May-16		0.0010 U	0.0020 U	0.0010 U	0.00048 J	0.0010 U	0.0010 U	0.0010 U	0.00026 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-080316	3-Aug-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-120716	7-Dec-16		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-020617	6-Feb-17		0.0010 U	0.0020 U	0.0010 U	0.00026 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-050917	9-May-17		0.0010 U	0.0020 U	0.0010 U	0.00065 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-080817	8-Aug-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-121217	12-Dec-17		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-020718	7-Feb-18		0.0010 U	0.0020 U	0.0010 U	0.00023 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-
	HS SER-RAMW08-050218	2-May-18															

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Hamilton Sundstrand Corporation
Plant 1/2 Facility
Rockford, Illinois

				Trichloroethene (TCE)	Methylene Chloride (Dichloromethane)	1,1-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Ethylbenzene	Tetrachloroethene (PCE)	Toluene	Vinyl chloride	1,4-Dioxane	
Preliminary Remediation Goals (PRG) ^A				0.005 ^c	0.005 ^c	0.007 ^{b,c}	0.7 ^A	0.005 ^c	0.07 ^A	0.1 ^c	0.2 ^{b,c}	0.005 ^c	0.7 ^c	0.005 ^c	1.0 ^c	0.002 ^c	0.0077 ^c	
Well	Sample ID	Sample Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
	HS SER-RAMW08-021319	13-Feb-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW08-052119	21-May-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW08-080619	6-Aug-19		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW08-121119	11-Dec-19		0.0010 U	0.0020 U	0.0010 U	0.0042	0.0010 U	0.0010 U	0.0010 U	0.0012	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0015	0.0010 U	-
	HS SER-RAMW08-021320	13-Feb-20		0.0010 U	0.0020 U	0.0010 U	0.00059 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW08-051220	12-May-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW08-080520	5-Aug-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW08-120820	8-Dec-20		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	-	
	HS SER-RAMW08-022321	23-Feb-21		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00037 J	
	HS SER-RAMW08-051921	19-May-21		0.0010 U	0.0020 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00057	

Notes:

PRG Preliminary Remediation Goals (PRGs) from the Record of Decision (ROD)

^A Class 1 - Groundwater Remediation Objectives

6.5^A Concentration exceeds the indicated standard at specified well; however, compliance with the standard is only applicable to GMZ wells.

15.2 Concentration was detected but did not exceed applicable standards.

0.50 U Laboratory reporting limit exceeded standard.

0.03 U The analyte was not detected above the laboratory reporting limit.

mg/L milligrams per liter

n/v No standard/guideline value.

- Parameter not analyzed / not available.

^{b,c} Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for

Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

^c Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for

Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

B The analyte was detected in the method, field and/or trip blank.

J Indicates estimated value.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated

numerical value represents its approximate concentration.

Groundwater monitoring wells located within the influence of active treatment systems yield groundwater sample data that is potentially biased by the treatment activities. This potential bias should be considered during evaluation of this data.

Attachment A



Imagine it.
Delivered.

Prepared for:
Hamilton Sundstrand Corporation
Rockford, Illinois

Prepared by:
AECOM
October 2021

Groundwater Management Zone Preliminary Conceptual Site Model

Hamilton Sundstrand Corporation Plants 1/2 Facility
Area 9/10 Remedial Action
Southeast Rockford Groundwater Contamination
Superfund Site
2421 11th Street
Rockford, IL 61104
ILD 981000417

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Appendix A Cross-Sections

List of Acronyms

1,1,1-TCA	1,1,1-trichloroethane
AECOM	AECOM Technical Services, Inc.
AOC	area of concern
AS	air sparge
bgs	below ground surface
C1GW	Class I groundwater
Cis-1,2-DCE	cis-1,2-dichloroethene
COC	contaminants of concern
CSM	conceptual site model
CVOC	chlorinated volatile organic compound
ft	feet
GMZ	Groundwater Management Zone
HSC	Hamilton Sundstrand Corporation
IAC	Illinois Administrative Code
IEPA	Illinois Environmental Protection Agency
LUST	leaking underground storage tank
MCL	maximum contaminant level
mg/L	milligrams per liter
OU-3	Operable Unit Three
OSA	outside container storage area
PCE	tetrachloroethene
PRG	preliminary remediation goal
PVOC	petroleum volatile organic compound

RAO	remedial action objective
ROD	Record of Decision
ROI	Radius of Influence
SER	Southeast Rockford
SWMU	solid waste management unit
SVE	soil vapor extraction
TCE	trichloroethene
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1.0 Introduction

On behalf of Hamilton Sundstrand Corporation (HSC), AECOM Technical Services Inc. (AECOM) prepared this Groundwater Management Zones (GMZs) Preliminary Conceptual Site Model (CSM) to document the current understanding of the CSM within the HSC's GMZs (the 'Site') located within Source Area 9/10 in the Southeast Rockford (SER) Groundwater Contamination Superfund (CERCLIS No. ILD981000417) located in the City of Rockford, Winnebago County, Illinois.

This document is intended to serve as the Preliminary CSM and has been provided to summarize the nature and extent of chlorinated volatile organic compounds (CVOCs) and petroleum volatile organic compounds (PVOCs) impacts as they are understood at this stage of the project. Furthermore, because Site investigation activities are not complete (i.e., PVOC sources associated with underground storage tanks), and some source areas are not well understood, this Preliminary CSM functions as a "working document" and any opinions expressed in this document are subject to change as additional investigations are completed.

Source Area 9/10 is an industrial area bound by 11th Street to the east, 23rd Avenue to the north, Harrison Avenue to the south and 6th Street to the west. The HSC GMZs are the HSC facility property boundaries which are located within Source Area 9/10 and is shown on **Figure 1 – Site Overview**.

As stated in the Operable Unit 3 Record of Decision (OU3 ROD), the remedial action objectives (RAOs) for Source Area 9/10 are identified for leachate alternatives and are intended to contain contaminants that have reached the groundwater. The leachate RAOs for Area 9/10 boundary (located at Harrison Avenue to the south and 6th Street to the west) are federal Safe Drinking Water Act Maximum Concentration Levels (MCLs) for groundwater. The leachate goals for the Site are Preliminary Remediation Goals (PRGs), which are the federal Safe Drinking Water Act MCLs and Class I groundwater quality standards (Title 35 Illinois Administrative Code [IAC] Part 620).

The majority of the HSC property consists of harden surfaces (existing building, existing concrete slab from portions of the building that was demolished in late 2000s, asphalt/concrete parking lots) with some limited landscaped areas. In general, geological conditions below the surface consist of a gravel fill subbase to generally 1.0 to 2.0 feet (ft) below ground surface (bgs), though up to 5.0 ft in localized areas, underlain by silty clay to a depth of 4.0 to 8.0 ft bgs (i.e., shallow soils), which is underlain by poorly to well graded sand (predominantly fine to medium sand) with some gravelly units to below the maximum depth of the borings completed at the Site (140 ft). The depth to leachate is approximately 30 ft and general leachate flow direction is from northeast to southwest. **Appendix A** contains cross-sections illustrating these features.

Regionally the sand and gravel unit has been reported to extend to a depth of 230 to 250 ft bgs in the vicinity of Area 9/10. This glacial outwash is identified as the Mackinaw Member of the Henry Formation. Bedrock encountered in borings/wells in the area is part of the Ordovician period Ancell Group (sandstone) of the Paleozoic era (CDM, Remedial Investigation Report, Southeast Rockford Groundwater Contamination Study, 1995).

Soil investigations began at the Site in the late 1980s and early 1990s as part of leaking underground storage tank (LUST) investigations and Resource Conservation and Recovery Act closure actions. Starting in 2003, a more comprehensive Site-wide investigation approach began that included numerous leachate and soil investigations to better characterize the nature and extent of impacts across the Site. Numerous impacts in soils have been detected based on biased/unbiased investigations, along with various solid waste management unit (SWMU), area of concern (AOC), LUST investigations. The SWMUs, AOCs, and LUST locations are shown on **Figure 2**.

Site remediation activities commenced in 2009 and included air sparge/soil vapor extraction (AS/SVE) treatment of leachate and soil excavation and in-situ chemical oxidation for addressing contaminated soil. Leachate within the inferred radius of influence (ROI) of the AS/SVE system appears to have reached concentrations below PRGs (with occasional exceptions in limited wells), but other areas outside its ROI remain above the PRGs.

Based on remedial investigation data from prior to the Site remedy implementation, soil contaminants that have the potential to affect leachate were detected predominantly in the shallow soils as a likely result of the contaminant mass bound in the finer-grained soils that are closer to the source releases. Due to the finer-grained nature of these soils, the AS/SVE systems that have been in operation may have limited effectiveness as would other remediation options.

In addition to the impacts characterized at the HSC Site, there are known impacts immediately upgradient (Former Mid-States Industrial property) and further upgradient (the larger SER site) impacts that have likely migrated onto the HSC Site. Those off-Site potential sources are not included in this Preliminary CSM.

For the purposes of this Preliminary CSM, the residual contamination associated with the SWMUs, AOCs, and LUSTs are considered potential sources if the VOCs detected in soils have the potential to affect the leachate (see **Figures 3, 4, and 5**).

The remainder of this report provides a summary of each SWMU, AOC, and LUST that have the potential to affect leachate based on a review of historical remedial investigation documents.

2.0 Potential Chlorinated VOC Source Areas

The following SWMUs and AOCs have historically had known CVOCs concentrations in soil that have the potential to affect leachate. Refer to **Figure 3** for the locations and **Table 1** for a summary of relevant information.

2.1 SWMU-3: Tank Farm (North)

Investigations in 2003/2004 and 2008/2009 have shown impacts in shallow soil, deep soil, and leachate. While deep soil was not shown to exceed the soil to leachate migration pathway, there were numerous exceedances in the shallow soils including two samples that had tetrachloroethene (PCE) exceeding the soil saturation capacity. A portion of this area is not within the estimated influence of the active AS/SVE remediation system.

References:

Pre-Design Investigation Report (April 28, 2006)
Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
Closure Report and Phase I RFI Work Plan (October 14, 2009)

2.2 SWMU-4: Tank Farm (South)

Numerous LUST incidents have occurred in this area in late 1980s and early 1990s. To date, investigations and remediation in this area have been primarily focused on total petroleum hydrocarbons as Jet Fuel (JP-4). However, 1,1,1-trichloroethane (1,1,1-TCA) was been detected at the soil-to-leachate migration pathway in shallow soils and low levels of CVOCs in leachate. Active remediation in this area included soil removal and operation of a free-phase recovery system from the early 1990s to 2010. Measurable free-phase contaminants had not been encountered since 2006 and the system was abandoned in November 2017.

References:

Summary of Soil Sampling Results June 23, 1988 (Fehr-Graham & Associates August 5, 1988)
Phase II Site Assessment (Warzyn May 1989)
Hydrogeologic Investigation Analytical Results (HLA November 27, 1991)
Pre-Design Investigation Report (April 28, 2006)
Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
Closure Report and Phase I RFI Work Plan (October 14, 2009)

2.3 SWMU-6: Underground Tank #2

Shallow soils detected in 2009 exceeded the soil-to-leachate migration pathway for PCE. No deep zone soils have been collected. No leachate data is available downgradient of SWMU-6. An engineered barrier (3 ft stone) has been installed over the footprint of SWMU-6.

References:

Closure Report and Phase I RFI Work Plan (October 14, 2009)

UST Removal Letter Report (January 12, 2010)
Phase I RCRA Investigation and Closure Report (July 19, 2011)
USEPA Letter (December 5, 2011)

2.4 SWMU-9: Plant #2 Drum Storage Area

Numerous investigations in this area (also referred to as the Outside Container Storage Area or OSA) beginning in the early 1990s have shown impacts (primarily PCE) in shallow soil, deep soil, and leachate. Remedial actions completed to date include: two rounds of injections of hydrogen release compound into the leachate, shallow soil excavation, and in-situ chemical oxidation injections / soil mixing. An engineered barrier (3 ft clay cap) has been installed over the footprint of SWMU-9. There is remaining PCE levels in both shallow and deep soils that exceed the soil to leachate migration pathway.

References:

HLA Summary of Historical Information and RCRA Closure Plan Modification (September 30, 1992)
IT Sampling Data Report (January 22, 1999)
Pre-Design Investigation Report (April 28, 2006)
Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
OSA Excavation Report (March 29, 2011)
OSA Delineation Work Plan Rev. 1 (June 28, 2011)
OSA Delineation Summary Letter Report (November 11, 2011)
Revised OSA Remedial Design Addendum (April 27, 2012)
OSA Post In-Situ Chem Ox Summary Report (June 27, 2012)

2.5 SWMU-12: Above Ground Indoor Storage Tank (1,1,1-TCA Still)

Shallow and deep soils detected in 2009 exceeded the soil-to-leachate migration pathway for PCE. An engineered barrier (slab-on-grade concrete flooring) is present. This area is within the influence of the AS/SVE system; however, it is uncertain if the SVE system has an effect on the shallow fine-grained soils.

References:

Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
Closure Report and Phase I RFI Work Plan (October 14, 2009)

2.6 SWMU-13: On-Site Leachate Contamination

Unbiased soil borings in 2008/2009 throughout the Site had exceedances in shallow and deep soils for the soil-to-leachate migration pathway with the principal compound being PCE. Grab leachate samples at these borings exhibited PCE concentration (among other compounds) above the PRGs. A significant portion of the leachate has been remediated via the AS/SVE systems, but significant areas outside the inferred influence of the remediation systems including the area beneath the western end of the Site building, and between the AS/SVE system and the western property line. Refer to **Figures 6 through 14**.

References:

Pre-Design Investigation Report (April 28, 2006)
Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
Closure Report and Phase I RFI Work Plan (October 14, 2009)

2.7 AOC: 2000 LUST Incident

Shallow and deep soils exceeded the soil-to-leachate migration pathway with the principal compound being PCE. This area is within the influence of the AS/SVE system; however, it is unknown if the SVE system has an effect on the shallow fine-grained soils.

References:

Revised Groundwater Management Zone Application - Appendix A (March 7, 2008)
Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
Closure Report and Phase I RFI Work Plan (October 14, 2009)

3.0 Potential Petroleum VOC Source Areas

The following SWMU and LUST incidents have detected concentrations of PVOCS that have the potential to affect leachate. Refer to **Figure 4** and **5** for the locations and **Table 1** for a summary of relevant information.

3.1 SWMU-4: Tank Farm (South)

Numerous LUST incidents have occurred in this area in late 1980s and early 1990s. To date, investigations and remediation in this area have identified total petroleum hydrocarbons as Jet Fuel (JP-4). Active remediation in this area included soil removal and operation of a free-phase recovery system from the early 1990s to 2010. Measurable free-phase contaminants had not been encountered since 2006 and the system was abandoned in November 2017.

References:

Summary of Soil Sampling Results June 23, 1988 (Fehr-Graham & Associates August 5, 1988)
Phase II Site Assessment (Warzyn May 1989)
Hydrogeologic Investigation Analytical Results (HLA November 27, 1991)
Pre-Design Investigation Report (April 28, 2006)
Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
Closure Report and Phase I RFI Work Plan (October 14, 2009)

3.2 SWMU-6: Underground Tank #2

Shallow soils from 2009 exceed the soil-to-leachate migration pathway for semi-PVOCS. No deep zone soils have been collected. No leachate data is available downgradient of SWMU-6. An engineered barrier (3 ft stone) is present over the footprint of SWMU-6.

References:

Closure Report and Phase I RFI Work Plan (October 14, 2009)
UST Removal Letter Report (January 12, 2010)
Phase I RCRA Investigation and Closure Report (July 19, 2011)
USEPA Letter (December 5, 2011)

3.3 LUST Incidents: 880744, 891750, 911977, 912119

Four recorded LUST incidents have occurred in the Site South Alley area, which historically has had numerous underground tanks with associated conveyance piping. Additional detail on each incident is provided below:

#880744 – June 10, 1988: Jet Fuel (JP-4) release(s) due to faulty maintenance.

#891750 – September 11, 1989: Release of Jet Fuel (JP-4) from tank system.

#911977 – July 18, 1991: Potential release of mineral spirits 7024. Tank tightness retest using water failed.

#912119 – August 15, 1991: Seal between the manway and the tank ruptured allowing Jet fuel (JP-4) to overflow to the surface.

Based on historical document review, all the incidents occurred in the same general area and any investigation activities completed appeared to be referenced to the first incident (#880744).

Active remediation in this area included soil removal and operation of a free-phase recovery system from the early 1990s to 2010. Measurable free-phase contamination had not been encountered since 2006 and the system was abandoned in November 2017.

References:

Summary of Soil Sampling Results June 23, 1988 (Fehr-Graham & Associates August 5, 1988)
Phase II Site Assessment (Warzyn May 1989)
Hydrogeologic Investigation Analytical Results (HLA November 27, 1991)
Pre-Design Investigation Report (April 28, 2006)
Remedial Action Investigation Report and Supplemental Remedial Design (August 2009)
Closure Report and Phase I RFI Work Plan (October 14, 2009)

3.4 East Plant 1 Demolition

As part of the eastern portion of the Plant 1 demolition, soil characterization data was collected that resulted in numerous shallow soils exceed the soil-to-leachate migration pathway for semi-PVOCs. No deep soil sample were collected.

References:

Phase I Pre-Demolition Soil Investigation Report (April 11, 2007)

4.0 Summary of Leachate Current Conditions

During the second quarter 2021 reporting period, five GMZ well locations along the Site boundary contained contaminants of concern (COCs) at concentrations above PRGs or Class I groundwater (C1GW) quality standard under Title 35 IAC Part 620 (for 1,4-dioxane). Also, one performance well had a COC concentration above a PRG. Below is a summary of the results. Also see **Figure 15**.

GMZ / Performance Monitoring Well ID	PCE (PRG = 0.005 mg/L)		TCE (PRG = 0.005 mg/L)		cis-1,2-DCE (PRG = 0.070 mg/L)		1,1,1-TCA (PRG = 0.200 mg/L)		1,4-Dioxane ¹ (C1GW = 0.0077 mg/L)	
	First Quarter (mg/L)	Second Quarter (mg/L)	First Quarter (mg/L)	Second Quarter (mg/L)	First Quarter (mg/L)	Second Quarter (mg/L)	First Quarter (mg/L)	Second Quarter (mg/L)	First Quarter (mg/L)	Second Quarter (mg/L)
GMZ01	0.0105	0.0113	< PRG	< PRG	< PRG	< PRG	< PRG	< PRG	< C1GW	< C1GW
GMZ04	< PRG	< PRG	< PRG	< PRG	< PRG	< PRG	< PRG	< PRG	< C1GW	0.0346
SMW04	0.0233	0.024	< PRG	< PRG	< PRG	< PRG	< PRG	< PRG	< C1GW	< C1GW
SMW08	0.0187	0.0176	< PRG	< PRG	< PRG	0.0953	< PRG	< PRG	< C1GW	< C1GW
SMW19	< PRG	< PRG	0.0123	0.0167	< PRG	< PRG	< PRG	< PRG	< C1GW	< C1GW
RAMW07	< PRG	< PRG	< PRG	< PRG	< PRG	< PRG	< PRG	0.344	< C1GW	< C1GW

¹ A PRG has not been established for 1,4-Dioxane. The comparison to C1GW is the Class I groundwater quality standard under Title 35 Illinois Administrative Code Part 620.

PCE – Tetrachloroethene

TCE – Trichloroethene

cis-1,2-DCE - cis-1,2-Dichloroethene

1,1,1-TCA - 1,1,1-Trichloroethane

mg/L - milligrams per liter

Monitoring well data has been below PRGs along the southern Site property boundary since 2016, which consists of 20 consecutive quarterly leachate sampling events. Furthermore, sample results from wells upgradient of the Site property boundary have been below PRGs since August 2017, which consists of 16 consecutive quarterly sampling events, with the following exceptions:

1. RAMW06: 1,1,1-TCA once in May 2020
2. RAMW07: 1,1-Dichloroethene in February and May 2019 and 1,1,1-TCA in February, May, August 2019 and May 2021

Active degradation of parent CVOCs is apparent at several wells (PMW02, SMW04, and SMW08) along the western Site boundary as cis-1,2-DCE and/or vinyl chloride have been recently detected in the wells.

5.0 Discussion of Data Gaps

The primary purpose of this Preliminary CSM is to define what has historically been understood to be the nature and extent of the impacts that have the potential to effect leachate at the Site. However, for the reasons set forth above, this Preliminary CSM is incomplete and there are data gaps that prevent a more complete understanding of the potential for these historical detections of contaminants to be on-going sources. The potential data gaps are listed below. Additional investigation activities, as needed, will be detailed in future work plans to gain a better understanding of the source areas and ultimately the extent of impacts that remain across the Site:

1. Determine the effectiveness of the SVE component of the remediation systems on shallow finer-grained soil impacts (i.e., rebound monitoring).
2. Determine the effectiveness of the AS/SVE systems in treating leachate (i.e., rebound monitoring).
3. Determine current leachate conditions at monitoring wells (if usable) that have not been sampled since 2004.
4. Determine source(s) of leachate impacts observed in the western Site boundary monitoring wells.
5. Determine if sufficient data has been collected to satisfy the LUST incidents requirements for closure.

Tables

Table 1: Summary of SWMUs, AOCs, LUST Incidents, and Other Areas of Potential Concern

ID	Name	Constituents of Concern	Potential To Affect Leachate
SWMU 1	Wastewater Treatment Plant (WWTP)	Chlorinated VOCs	No: Deep Soil < Tier 2 SROs Reference(s): Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) Phase I RCRA Investigation and Closure Report (July 19, 2011) USEPA Letter (December 5, 2011)
SWMU 2	Scrubber (Roof)		
SWMU 3	Tank Farm (North) Also referred to as the loading dock area.	Chlorinated VOCs	Yes: Shallow Soil > STG which includes Csat exceedings Deep Soil < STG Reference(s): Pre-Design Investigation Report (April 28, 2006) Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) Closure Report and Phase I RFI Work Plan (October 14, 2009)
SWMU 4	Tank Farm (South)	Chlorinated VOCs Petroleum VOCs	Yes: Insufficient soil and leachate data. Reference(s): Summary of Soil Sampling Results June 23, 1988 (Fehr-Graham & Associates August 5, 1988) Phase II Site Assessment (Warzyn May 1989) Hydrogeologic Investigation Analytical Results (HLA November 27, 1991) Pre-Design Investigation Report (April 28, 2006) Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) Closure Report and Phase I RFI Work Plan (October 14, 2009)
SWMU 5	Underground Tank #1 (Within the footprint of SWMU9)	-	-
SWMU 6	Underground Tank #2	Chlorinated VOCs Petroleum VOCs	Yes: Shallow Soil > STG Reference(s): Closure Report and Phase I RFI Work Plan (October 14, 2009) UST Removal Letter Report (January 12, 2010) Phase I RCRA Investigation and Closure Report (July 19, 2011) USEPA Letter (December 5, 2011)
SWMU 7	Underground Tank E	-	No: Visual inspection, leak detection, active use and no evidence of a release. Reference(s): Closure Report and Phase I RFI Work Plan (October 14, 2009)

Table 1: Summary of SWMUs, AOCs, LUST Incidents, and Other Areas of Potential Concern

ID	Name	Constituents of Concern	Potential To Affect Leachate
SWMU 8	Underground Tank #32	Chlorinated VOCs	No: Soil < Tier 1 SROs Reference(s): Phase I RCRA Investigation and Closure Report (July 19, 2011) USEPA Letter (December 5, 2011)
SWMU 9	Plant #2 Drum Storage Area (OSA)	Chlorinated VOCs	Yes: Shallow and Deep Soil > STG Reference(s): HLA Summary of Historical Information and RCRA Closure Plan Modification (September 30, 1992) IT Sampling Data Report (January 22, 1999) Pre-Design Investigation Report (April 28, 2006) Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) OSA Excavation Report (March 29, 2011) OSA Delineation Work Plan Rev. 1 (June 28, 2011) OSA Delineation Summary Letter Report
SWMU 10	Plant #1 Indoor Drum Storage Area	Chlorinated VOCs Petroleum VOCs	No. Illinois EPA closure in 1994. Reference(s): Closure Report and Phase I RFI Work Plan (October 14, 2009)
SWMU 11	Contaminated Soil Drum Storage Area (2 drums of impacted soil)	Chlorinated VOCs Petroleum VOCs	No: Properly containerized and labeled drums of impacted soil. Reference(s): Closure Report and Phase I RFI Work Plan (October 14, 2009)
SWMU 12	Aboveground Indoor Storage Tank (TCA Still)	Chlorinated VOCs	Yes: Shallow and Deep Soil > STG Reference(s): Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) Closure Report and Phase I RFI Work Plan (October 14, 2009)
SWMU 13	On-site Groundwater Contamination	Chlorinated VOCs	Yes: Shallow and Deep Soil > STG Reference(s): Pre-Design Investigation Report (April 28, 2006) Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) Closure Report and Phase I RFI Work Plan (October 14, 2009)
SWMU 14	Waste Oil Drum	Chlorinated VOCs Petroleum VOCs	No: Former Satellite Accumulation Area Reference(s): Closure Report and Phase I RFI Work Plan (October 14, 2009)

Table 1: Summary of SWMUs, AOCs, LUST Incidents, and Other Areas of Potential Concern

ID	Name	Constituents of Concern	Potential To Affect Leachate
AOC 25	Drum Wash Area	Chlorinated VOCs Petroleum VOCs	No: Visual Inspection Reference(s): Closure Report and Phase I RFI Work Plan (October 14, 2009)
AOC 26	Old Dichromate Line	Chlorinated VOCs	No: Soil < Tier 2 SROs Reference(s): Phase I RCRA Investigation and Closure Report (July 19, 2011)
AOC 27	Old Plant #1 Plating Area	Chlorinated VOCs	No: Soil < Tier 2 SROs Reference(s): Phase I RCRA Investigation and Closure Report (July 19, 2011) USEPA Letter (December 5, 2011)
AOC 28	Plant #1 Sodium Dichromate Line	Chlorinated VOCs	No: Shallow Soil > STG and Deep Soil < STG Reference(s): Phase I RCRA Investigation and Closure Report (July 19, 2011) USEPA Letter (December 5, 2011)
AOC	2000 LUST Incident #20001403 Also referred to as the tank farm area.	Chlorinated VOCs Petroleum VOCs	Yes: Shallow and Deep Soil > STG for Chlorinated VOCs. Shallow Soil < STG for Petroleum VOCs Reference(s): Revised Groundwater Management Zone Application - Appendix A (March 7, 2008) Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) Closure Report and Phase I RFI Work Plan (October 14, 2009)
AOC	Acid Drum Storage Area	-	No. Area stored empty acidic waste drums.
LUST Incidents	LUST Incident 880744 June 10, 1988. LUST Incident 891750 September 11, 1989. LUST Incident 911977 July 18, 1991. LUST Incident 912119 August 1, 1991.	Petroleum VOCs	Yes: Insufficient soil and leachate data. Reference(s): Summary of Soil Sampling Results June 23, 1988 (Fehr-Graham & Associates August 5, 1988) Phase II Site Assessment (Warzyn May 1989) Hydrogeologic Investigation Analytical Results (HLA November 27, 1991) Pre-Design Investigation Report (April 28, 2006) Remedial Action Investigation Report and Supplemental Remedial Design (August 2009) Closure Report and Phase I RFI Work Plan (October 14, 2009)

Table 1: Summary of SWMUs, AOCs, LUST Incidents, and Other Areas of Potential Concern

ID	Name	Constituents of Concern	Potential To Affect Leachate
LUST Incident 912286 August 15, 1991.	LUST Incident 912286 August 15, 1991. North Alley Diesel Tank	Petroleum VOCs	No: Soil < Tier 1 SROs Reference(s): 20-Day Report (February 20, 1992)
East Plant 1 Demo	2006 Pre-Demo Phase 1 Investigation	Petroleum VOCs	Yes: Shallow Soil > STG Reference(s): Phase 1 Pre-Demolition Soil Investigation Report

Notes: STG = Soil to Leachate Pathway

NA = Not Applicable

SRO = Soil Remediation Objective

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act

LUST = Leaking Underground Storage Tank

SWMU = Solid Waste Management Unit

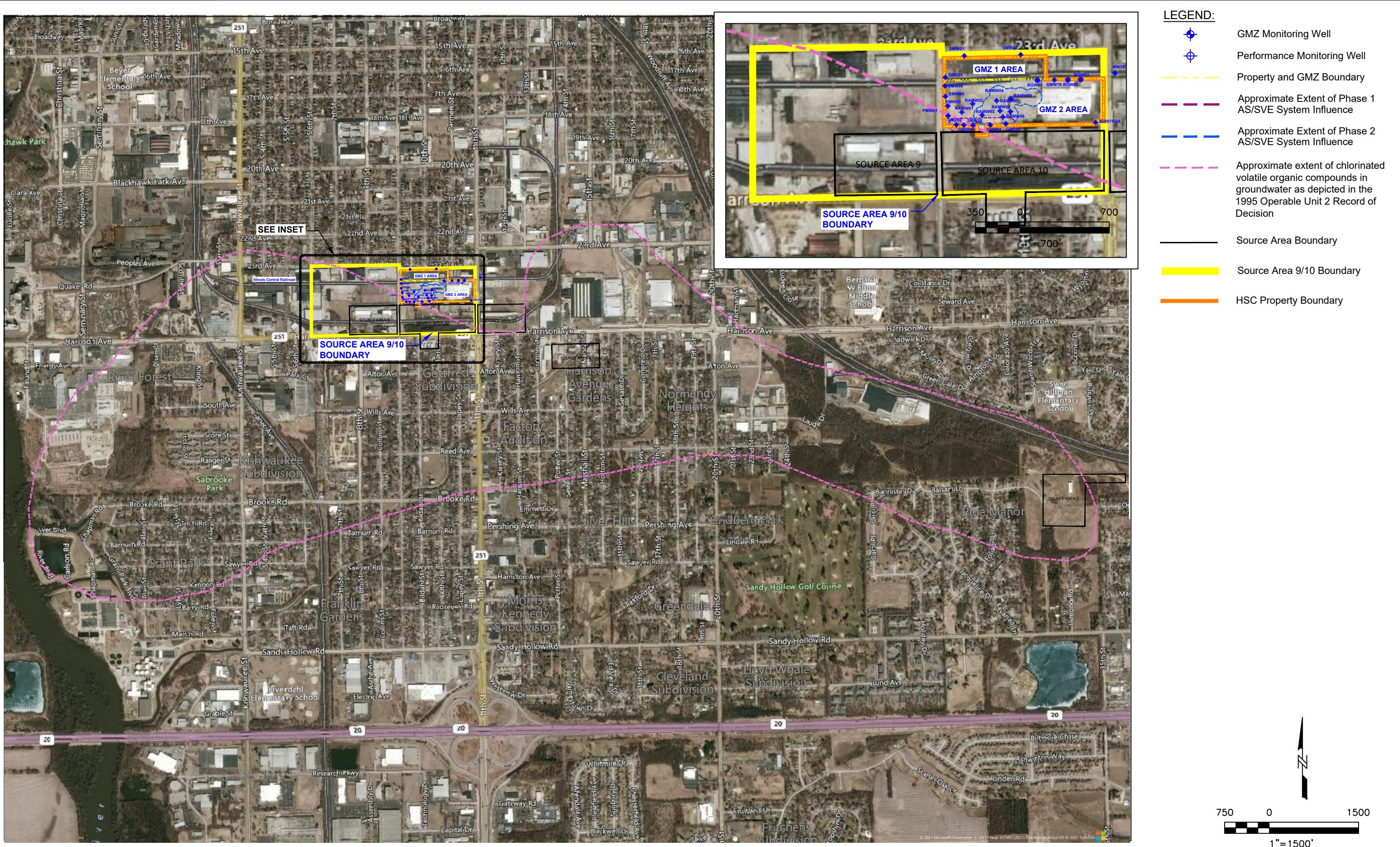
AOC = Area of Concern

COIs = Constituents of Interest

VOCs = volatile organic compounds

MCLs = maximum contaminant levels

Figures



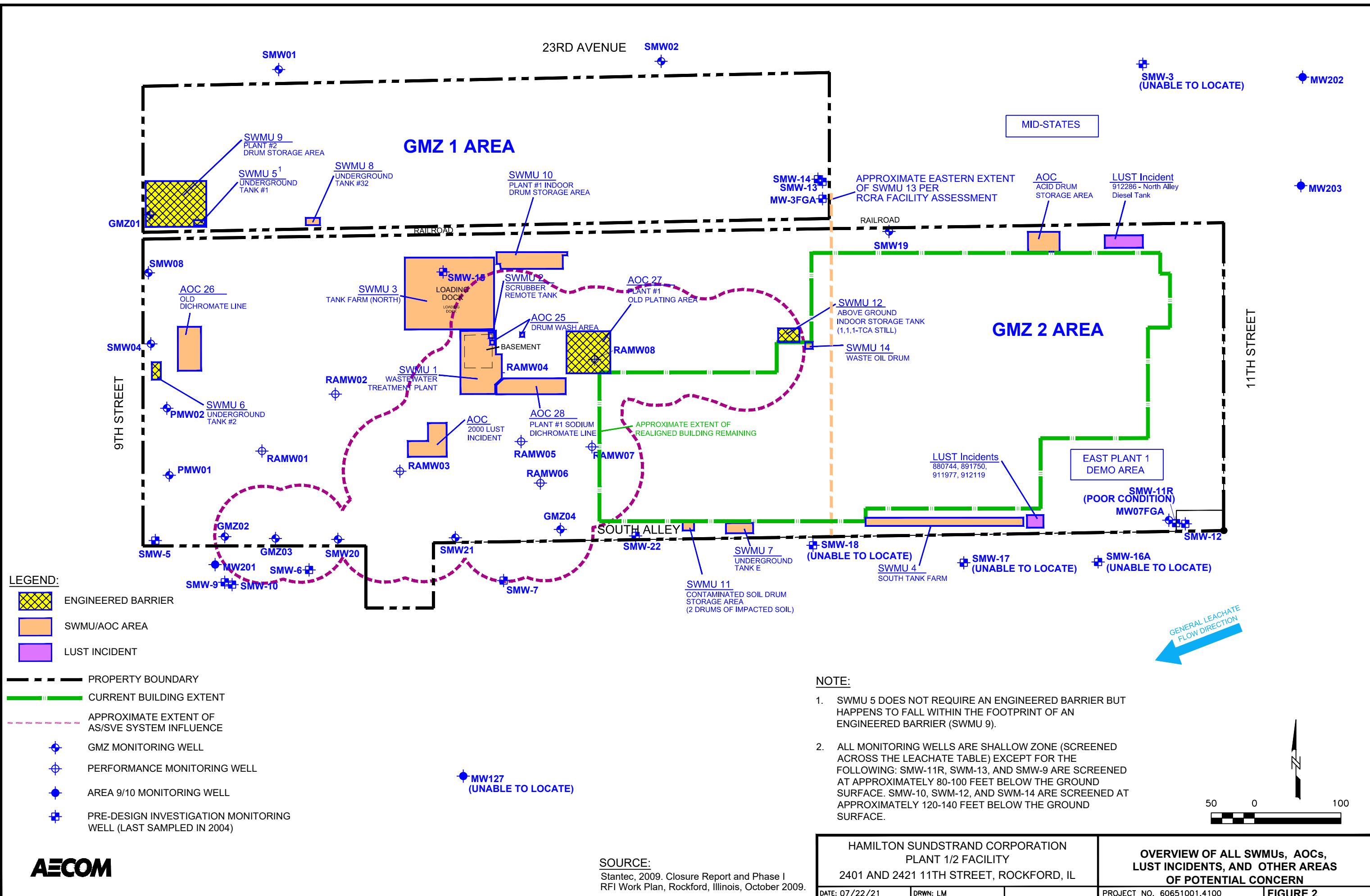
SOURCE AREA 9/10 REMEDIAL ACTION
ROCKFORD, ILLINOIS

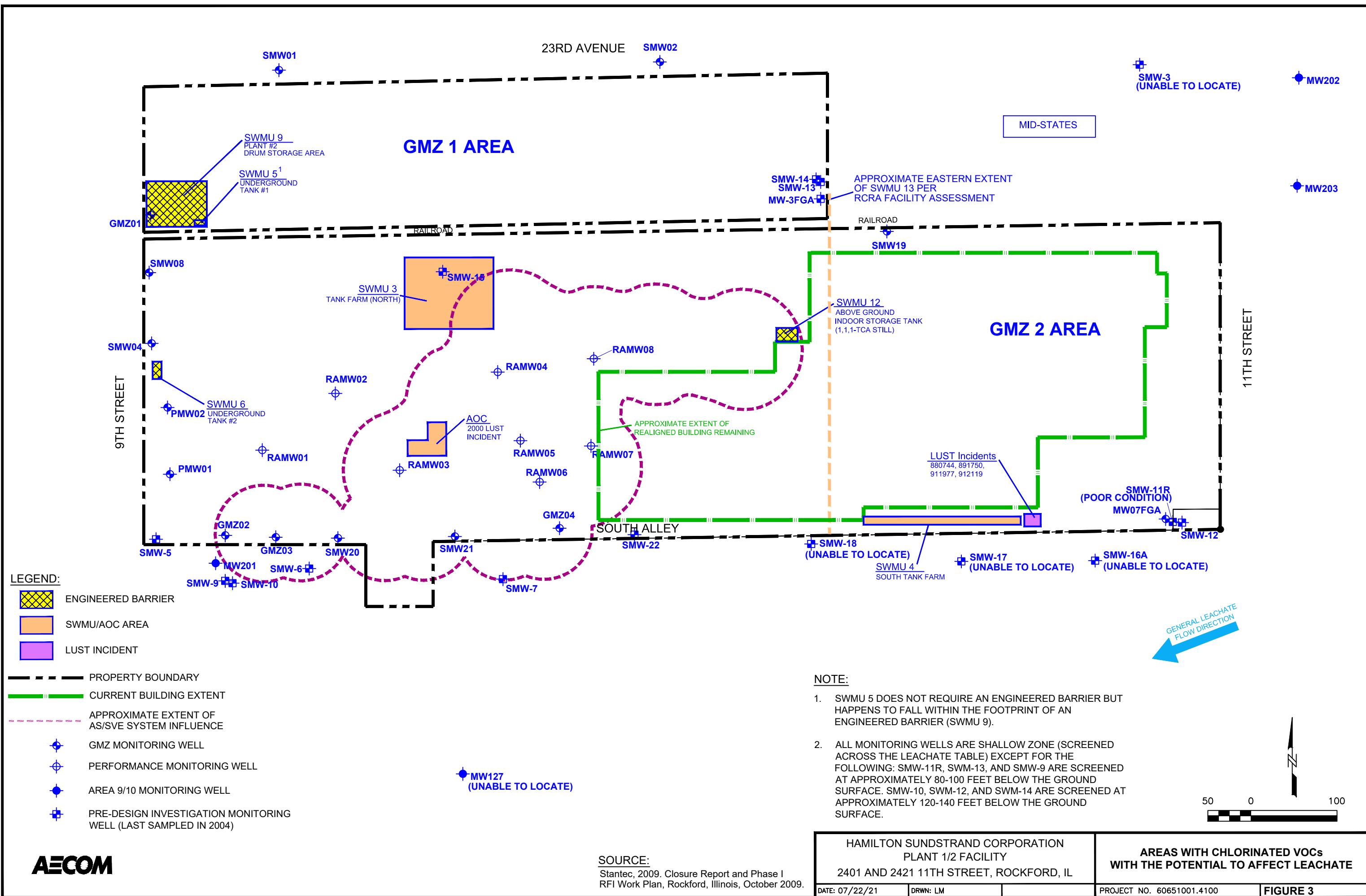
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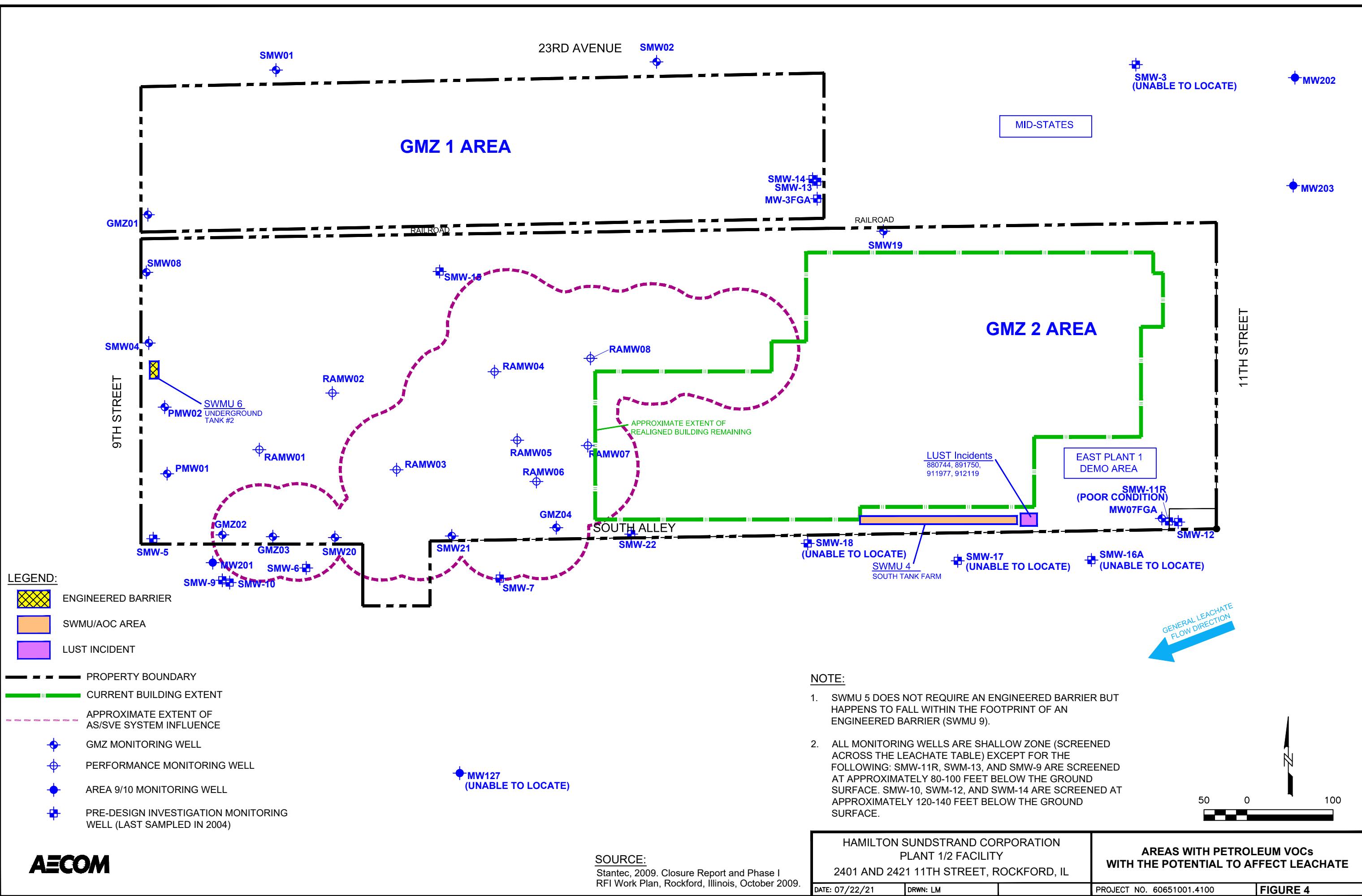
SITE OVERVIEW

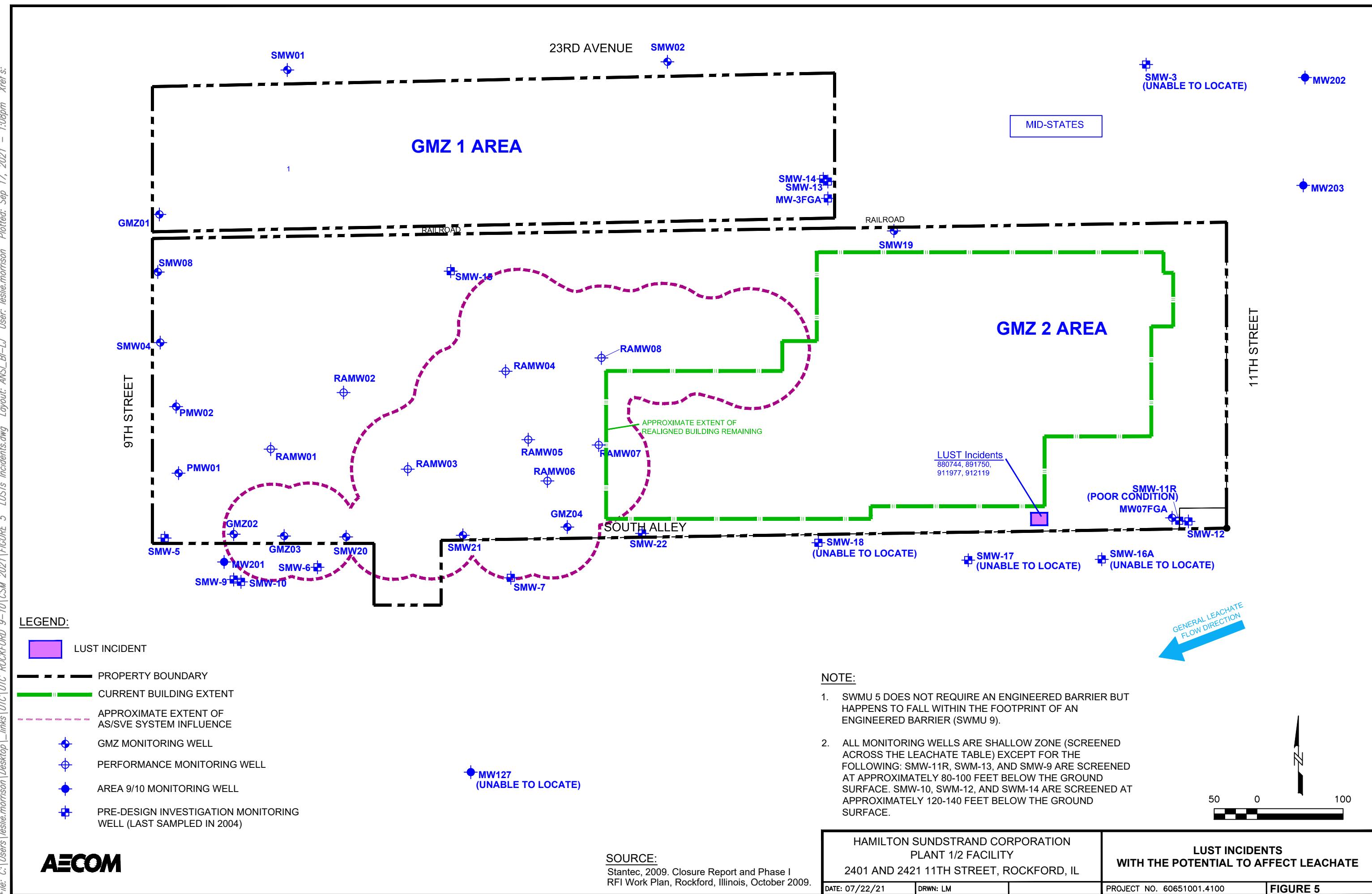
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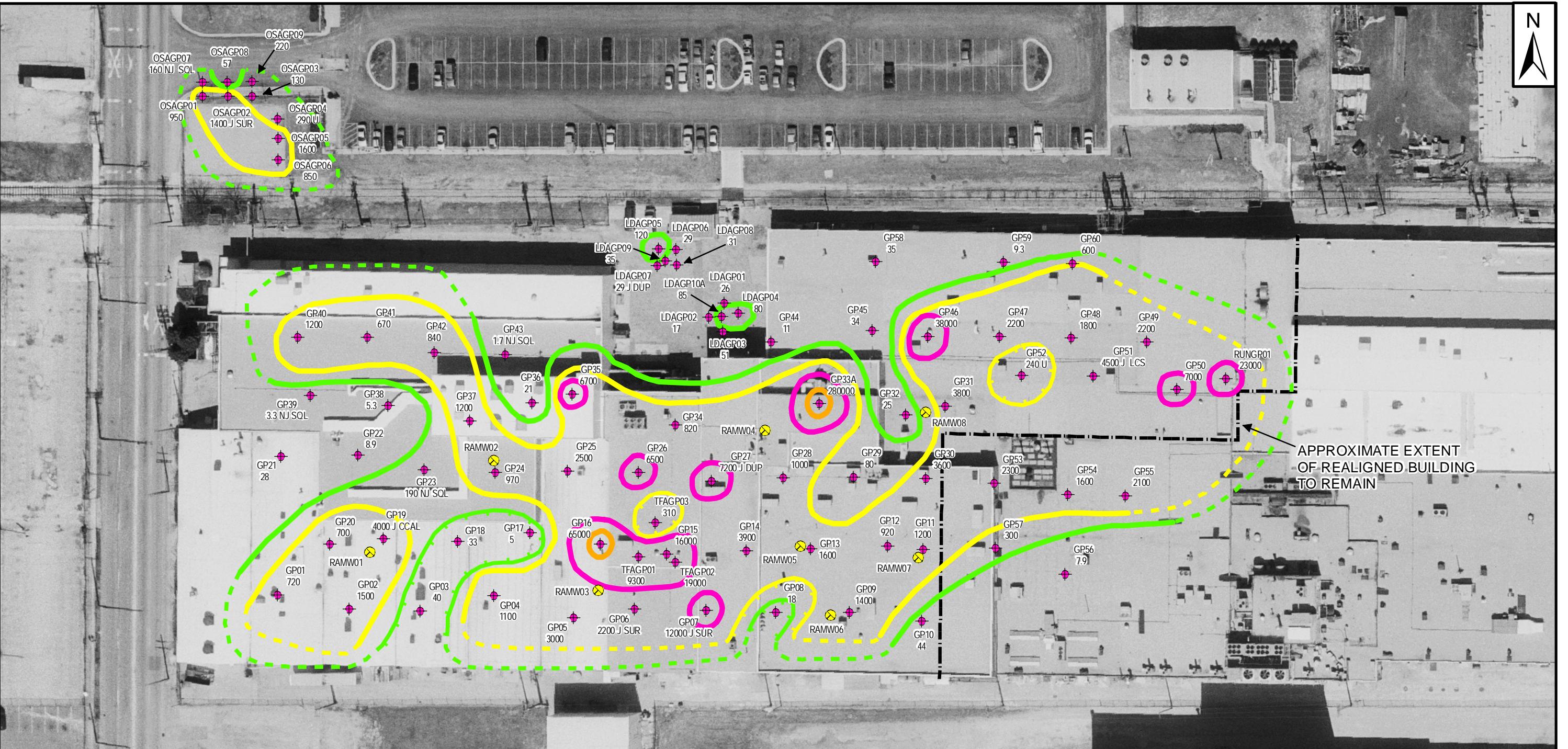
The: C:\users\leslie.morrison\Desktop\Links\UTC\ROCKFORD 9-10\CSMA 2021\FIGURE 1 SITE OVERVIEW.dwg Layout: ANSL-BI-LU User: leslie.morrison Plotted: Sep 16, 2021 - 12:27pm











Legend

- Isoconcentration Contours
- 60,000 ug/kg (1000x RO)
 - 6,000 ug/kg (100x RO)
 - 600 ug/kg (10x RO)
 - 60 ug/kg (RO)

NOTE: Dashed lines are projected contours

◆ Phase 2 Monitoring Well

● Boring Location (data used in contours)

○ Boring Location (data not used in contours)

NOTES:

- 1) Contours are generalized and may not be representative for each specific location.
- 2) Analytical data from 11-08 to 4-09 field activities.
- 3) Values that were not detected, where the reporting limit was above the remediation objective, were not included in contouring.

0 35 70 140
Feet

DESIGNED BY: ALR/JD

DRAWN BY: MEP/JEM

APPROVED BY: KTW

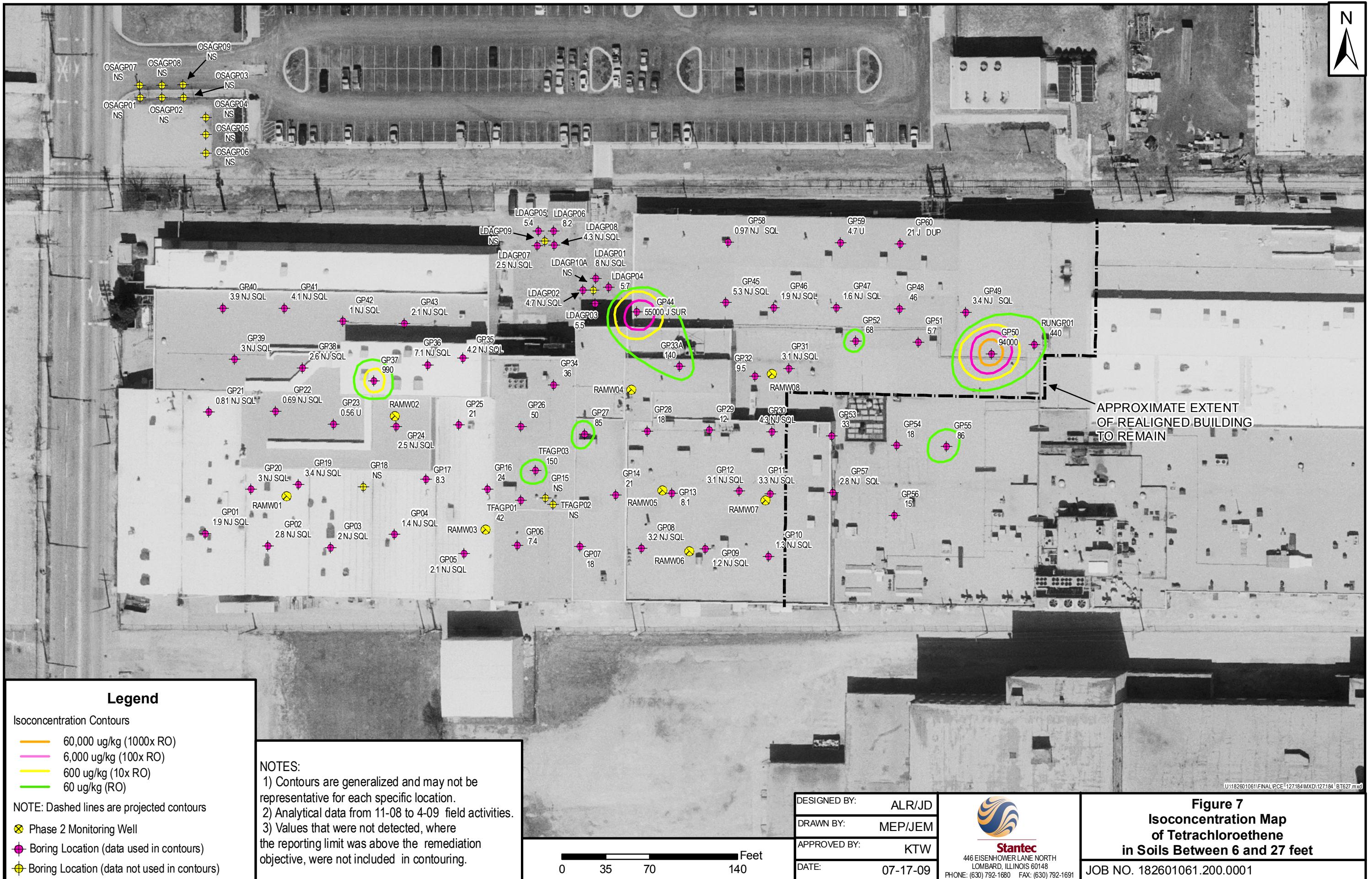
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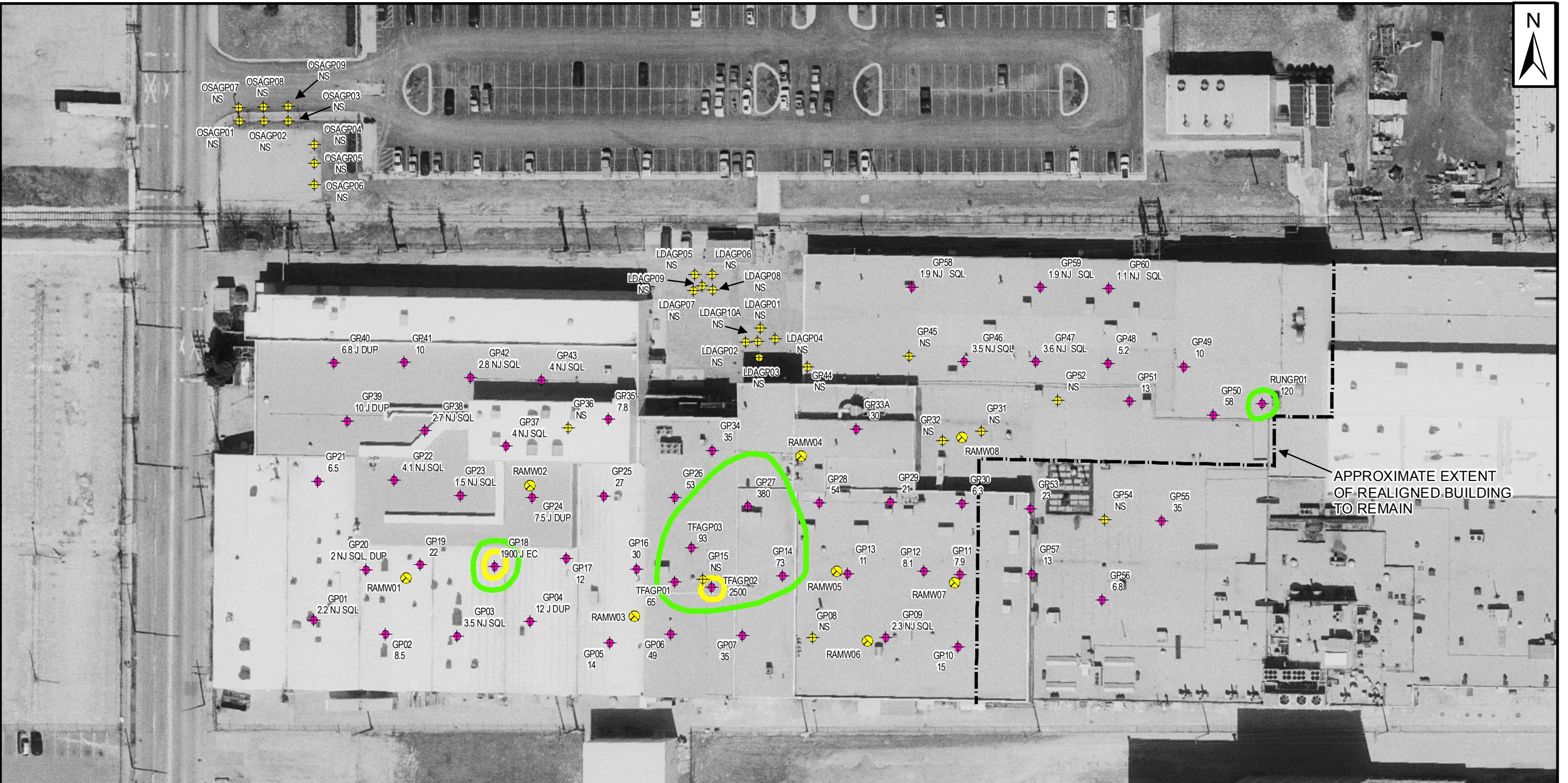


446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680 FAX: (630) 792-1691

Figure 6
Isoconcentration Map
of Tetrachloroethene
in Soils Less than 6 feet

JOB NO. 182601061.200.0001





Legend

Isoconcentration Contours

- 600 ug/kg (10x RO)
- 60 ug/kg (RO)

NOTE: Dashed lines are projected contours

◆ Phase 2 Monitoring Well

● Boring Location (data used in contours)

◆ Boring Location (data not used in contours)

NOTES:

- 1) Contours are generalized and may not be representative for each specific location.
- 2) Analytical data from 11-08 to 4-09 field activities.
- 3) Values that were not detected, where the reporting limit was above the remediation objective, were not included in contouring.

0 35 70 140
Feet

DESIGNED BY: ALR/JD

DRAWN BY: MEP/JEM

APPROVED BY: KTW

DATE: 07-17-09

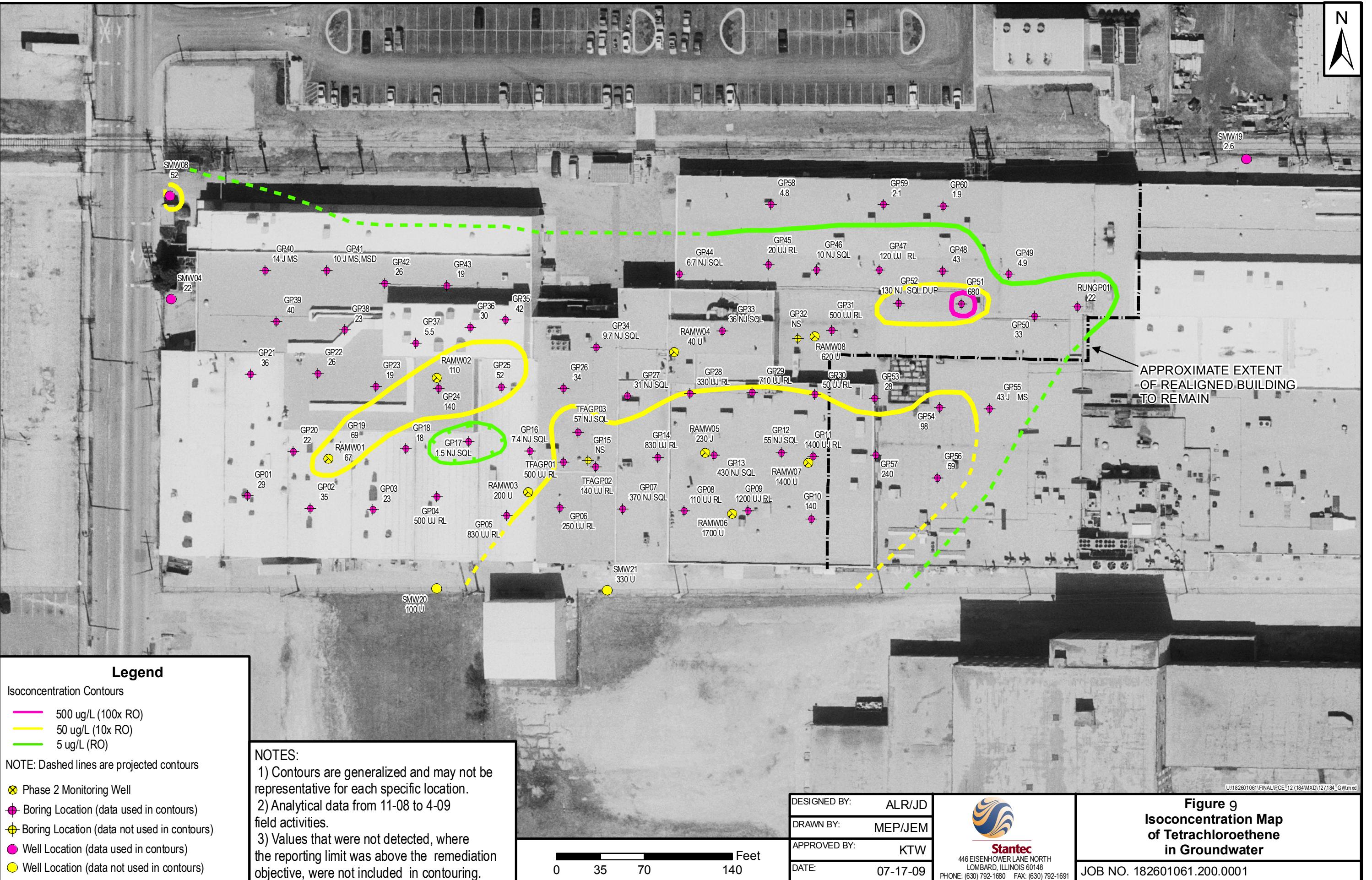


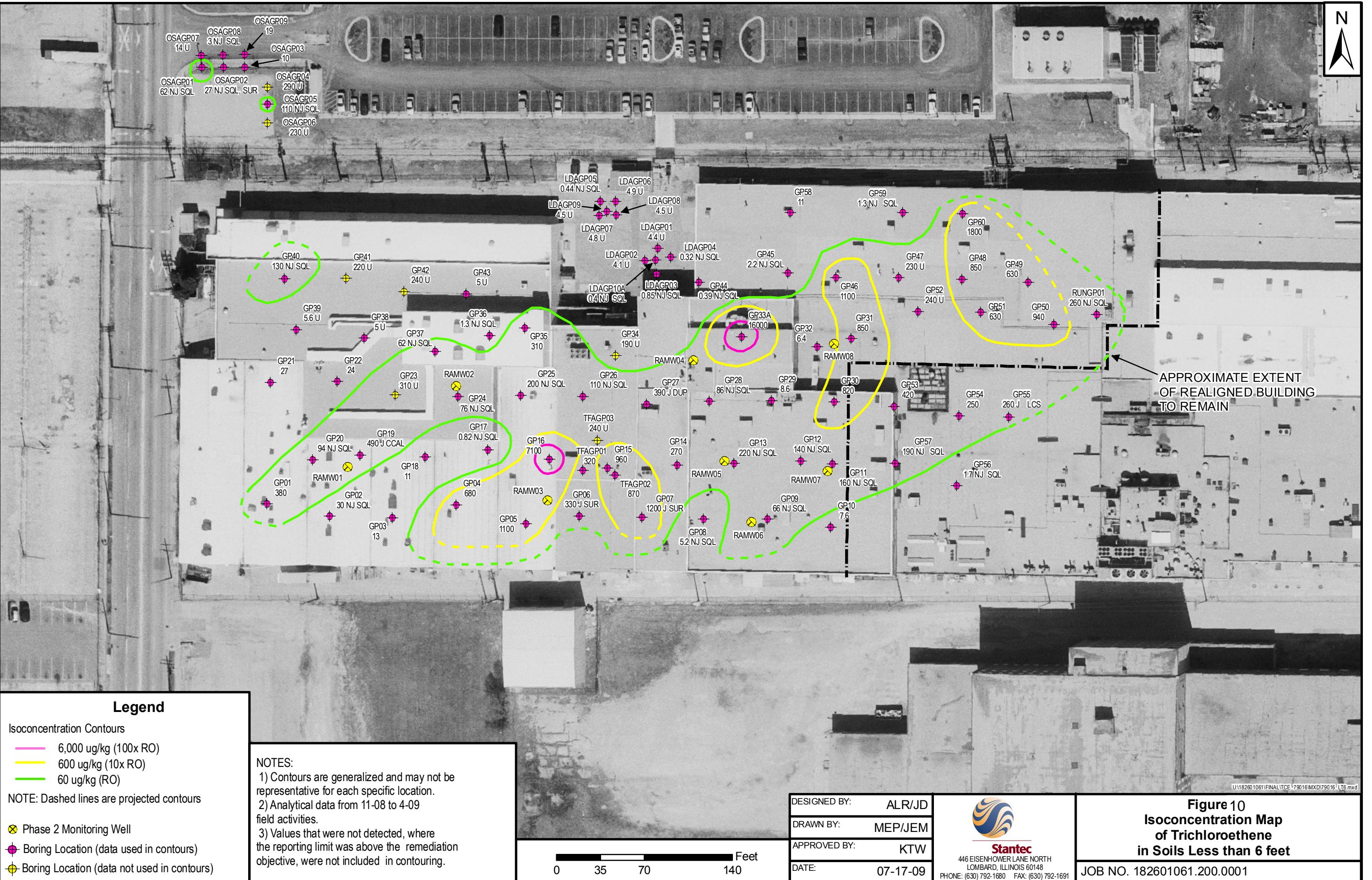
446 EISENHOWER LANE NORTH
LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680 FAX: (630) 792-1691

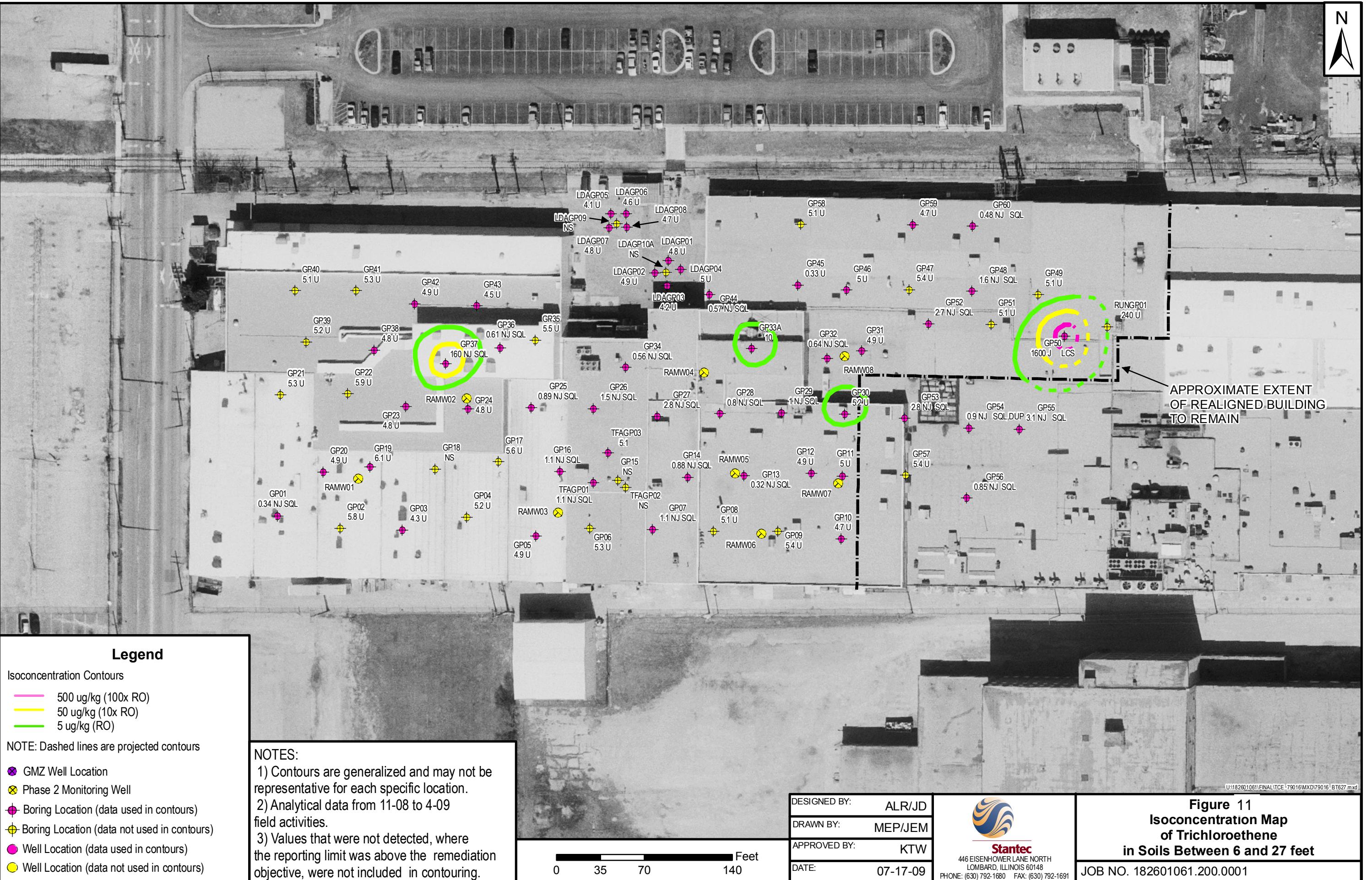
Figure 8
Isoconcentration Map
of Tetrachloroethene
in Soils Greater than 27 feet

JOB NO. 182601061.200.0001

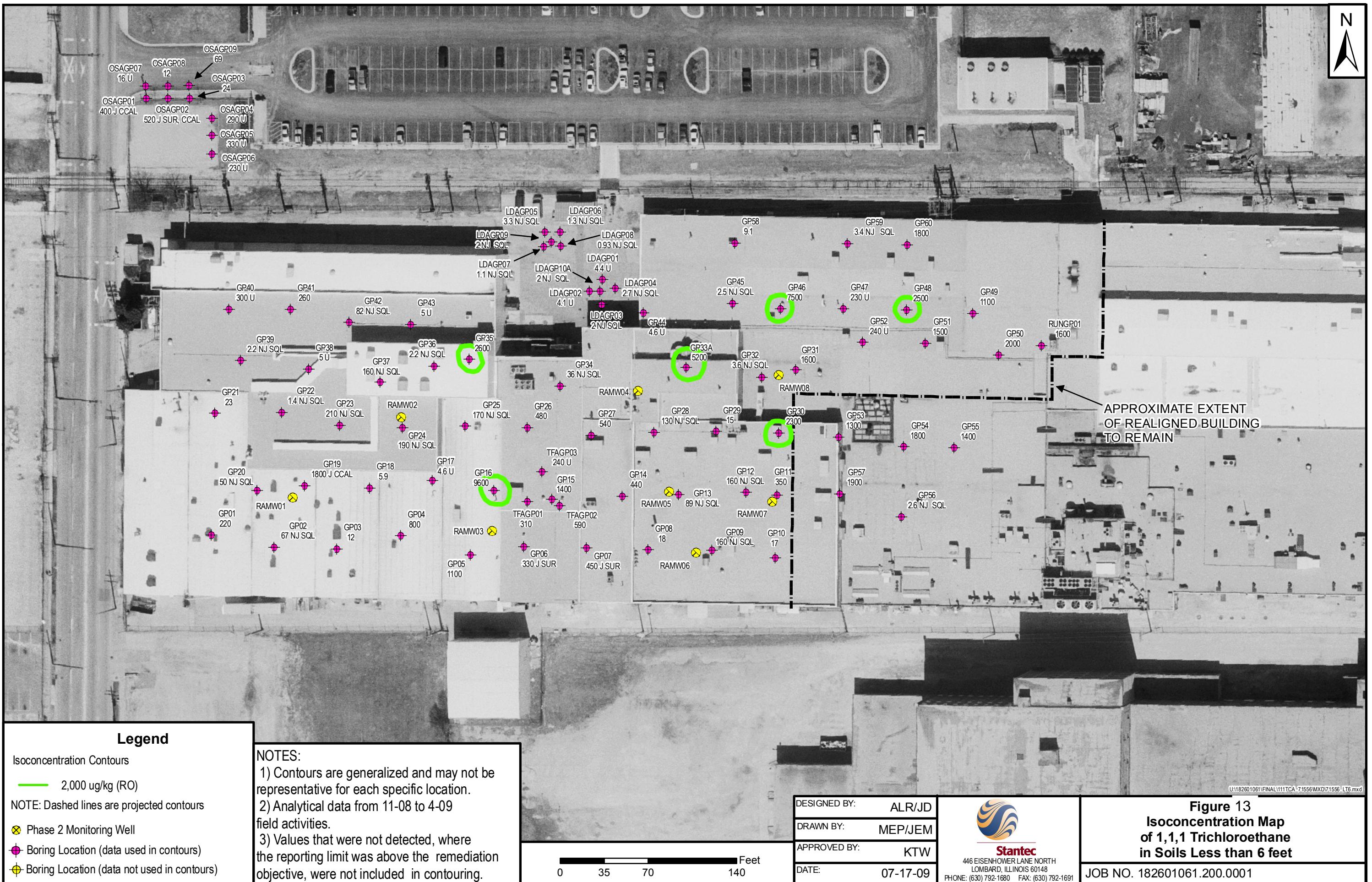
U:\182601061\FINAL\PCE\127184\MXD\127184_GT27.mxd













Legend

Isoconcentration Contours

- 20,000 ug/L (100x RO)
- 2,000 ug/L (10x RO)
- 200 ug/L (RO)

NOTE: Dashed lines are projected contours

- ✖ Phase 2 Monitoring Well
- Boring Location (data used in contours)
- Boring Location (data not used in contours)
- Well Location (data used in contours)

NOTES:

- 1) Contours are generalized and may not be representative for each specific location.
- 2) Analytical data from 11-08 to 4-09 field activities.
- 3) Values that were not detected, where the reporting limit was above the remediation objective, were not included in contouring.

0 35 70 140 Feet

DESIGNED BY:	ALR/JD
DRAWN BY:	MEP/JEM
APPROVED BY:	KTW
DATE:	07-17-09

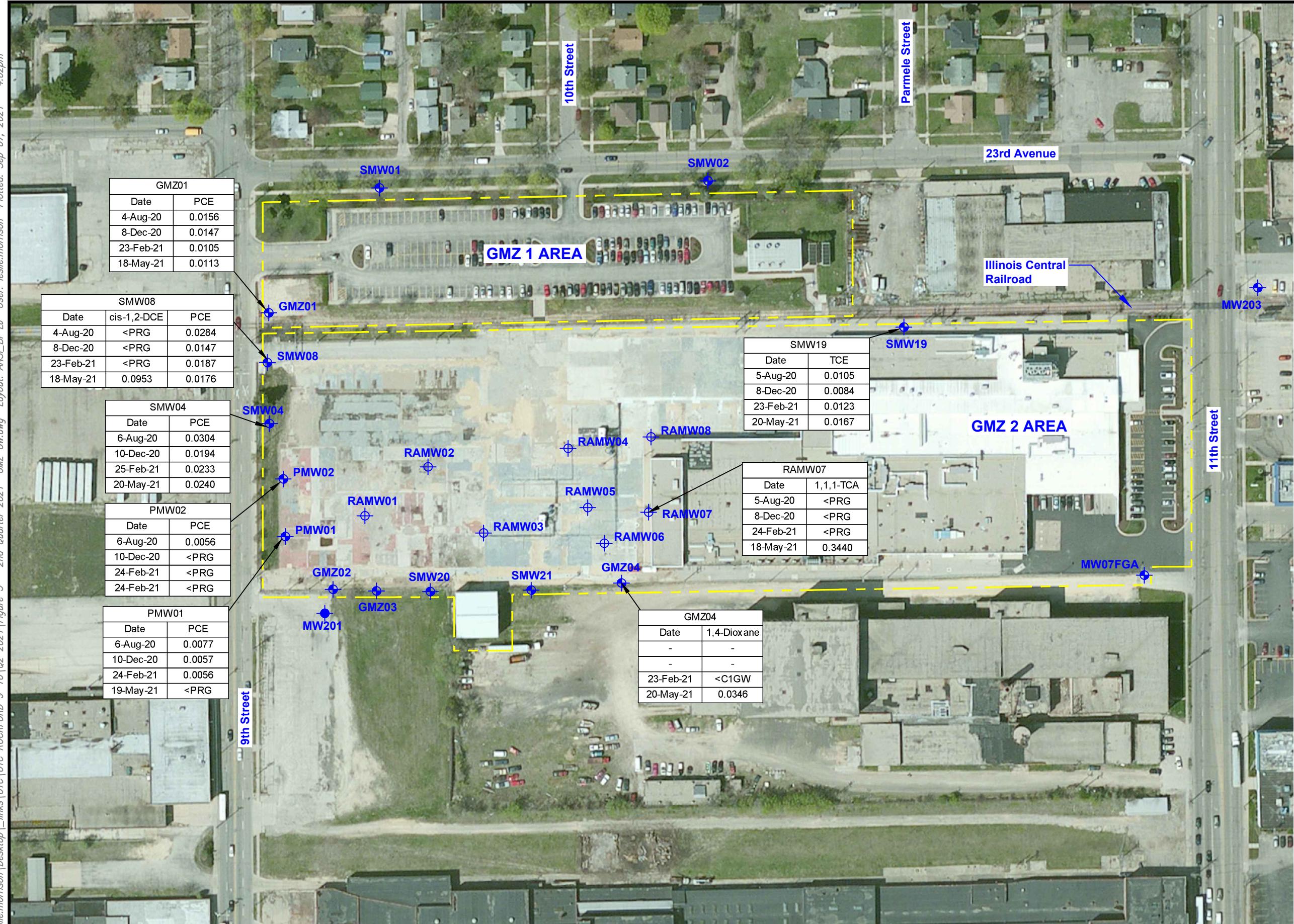


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LOMBARD, ILLINOIS 60148
PHONE: (630) 792-1680 FAX: (630) 792-1691

Figure 14
Isoconcentration Map
of 1,1,1 Trichloroethane
in Groundwater

JOB NO. 182601061.200.0001

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LEGEND:

- ◆ GMZ Monitoring Well
- ◆ Area 9/10 Monitoring Well
- ◆ Performance Monitoring Wells
- Site and GMZ Boundary

NOTES:

- Values are listed only for those wells in which a Volatile Organic Compound (VOC) was identified above the Preliminary Remediation Goal (PRG) for the previous four events.

2. mg/L milligrams per liter

Preliminary Remediation Goals (PRG)	
Trichloroethene (TCE)	0.005 mg/L
cis-1,2-Dichloroethene (cis-1,2-DCE)	0.07 mg/L
1,1,1-Trichloroethane (1,1,1-TCA)	0.2 mg/L
Tetrachloroethene (PCE)	0.005 mg/L
Vinyl chloride	0.002 mg/L

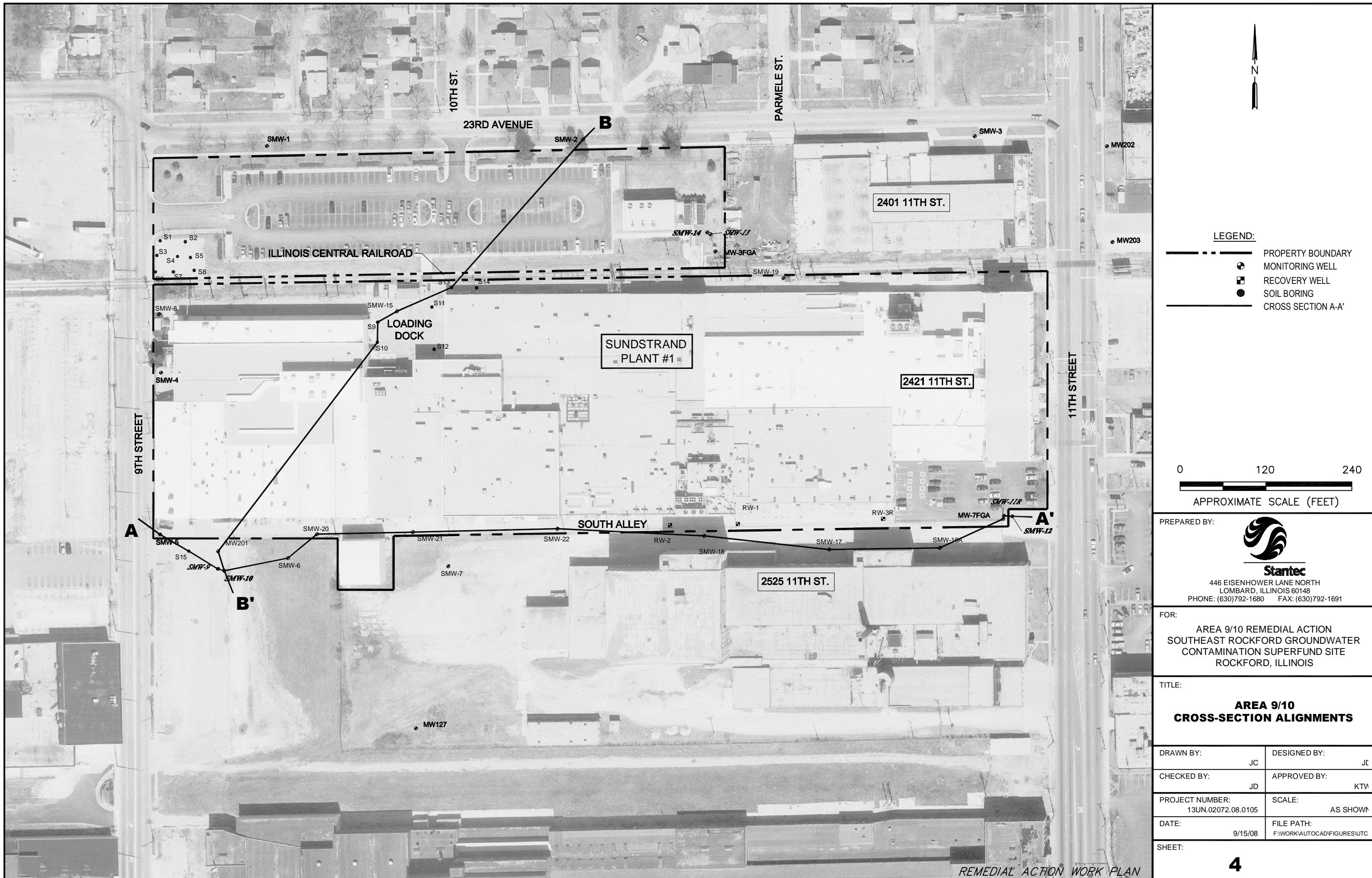
Class 1 Groundwater (C1GW) ¹	
1,4-Dioxane	0.0077 mg/L

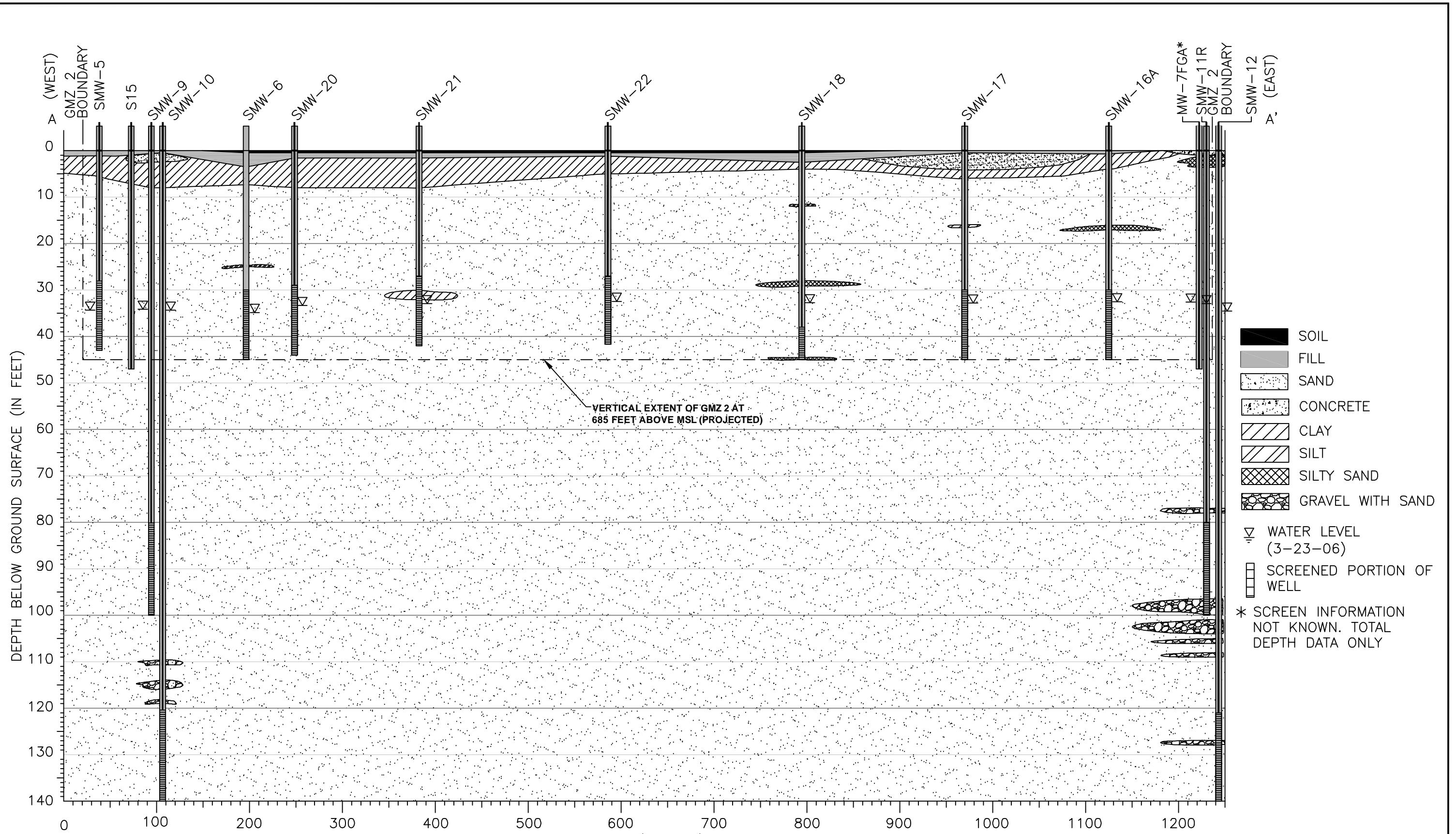
¹A PRG has not been established for 1,4-Dioxane. The comparison to C1GW is the Class I groundwater quality standard under Title 35 Illinois Administrative Code Part 620.

65 0 130
1" = 130'

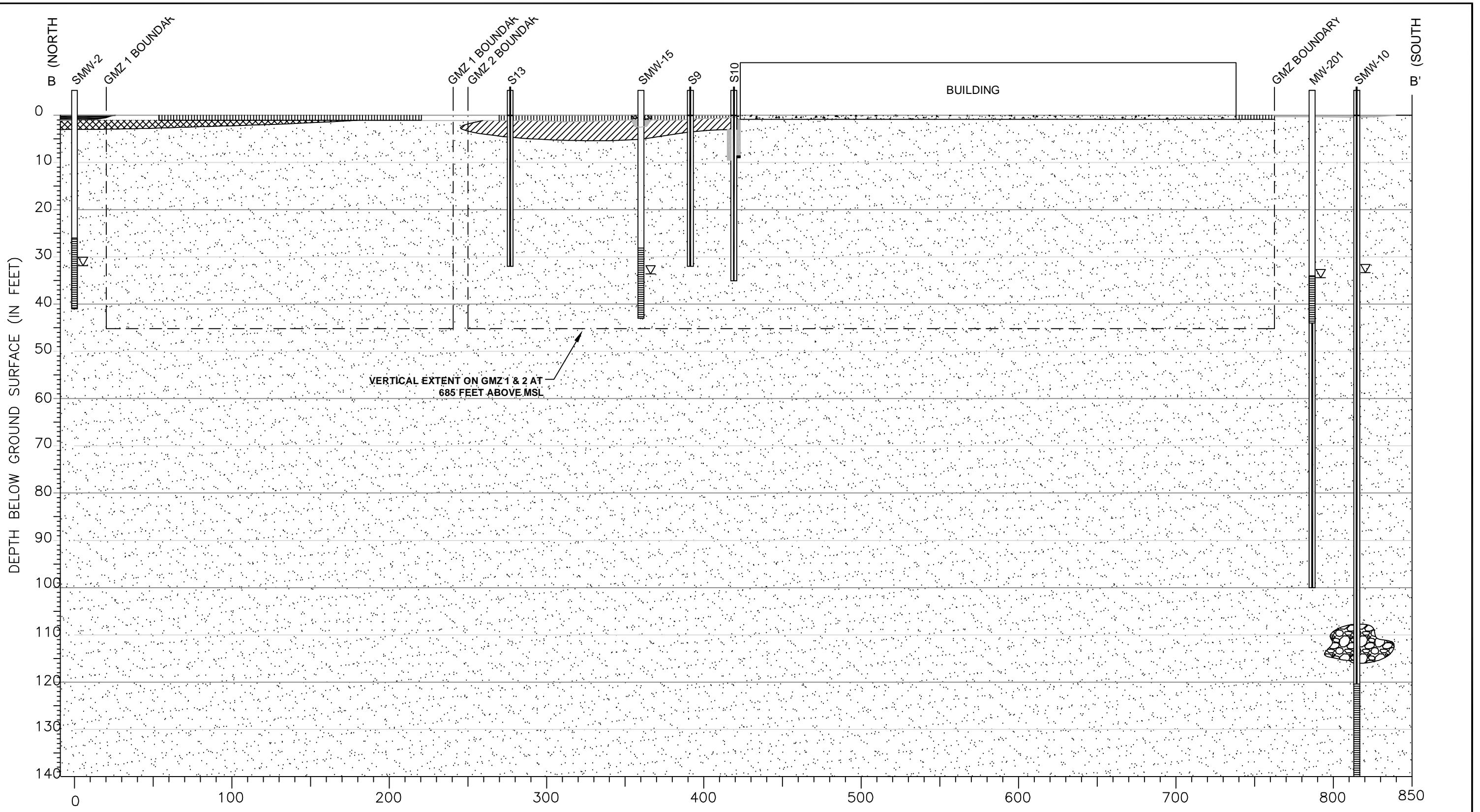
Appendix A

Cross-Sections





NOTE:
GROUND SURFACE ELEVATION APPROXIMATELY 729 FT ABOVE
MEAN SEA LEVEL (VARIES +/- 1.5 FEET ACROSS AREA)



TOP SOIL

GRAVEL WITH SAND

FILL

GRAVEL W/ SILTY CLAY

SAND

ASPHALT

CLAY

WATER LEVEL (3/23/06)

CONCRETE

SCREENED PORTION OF WELL

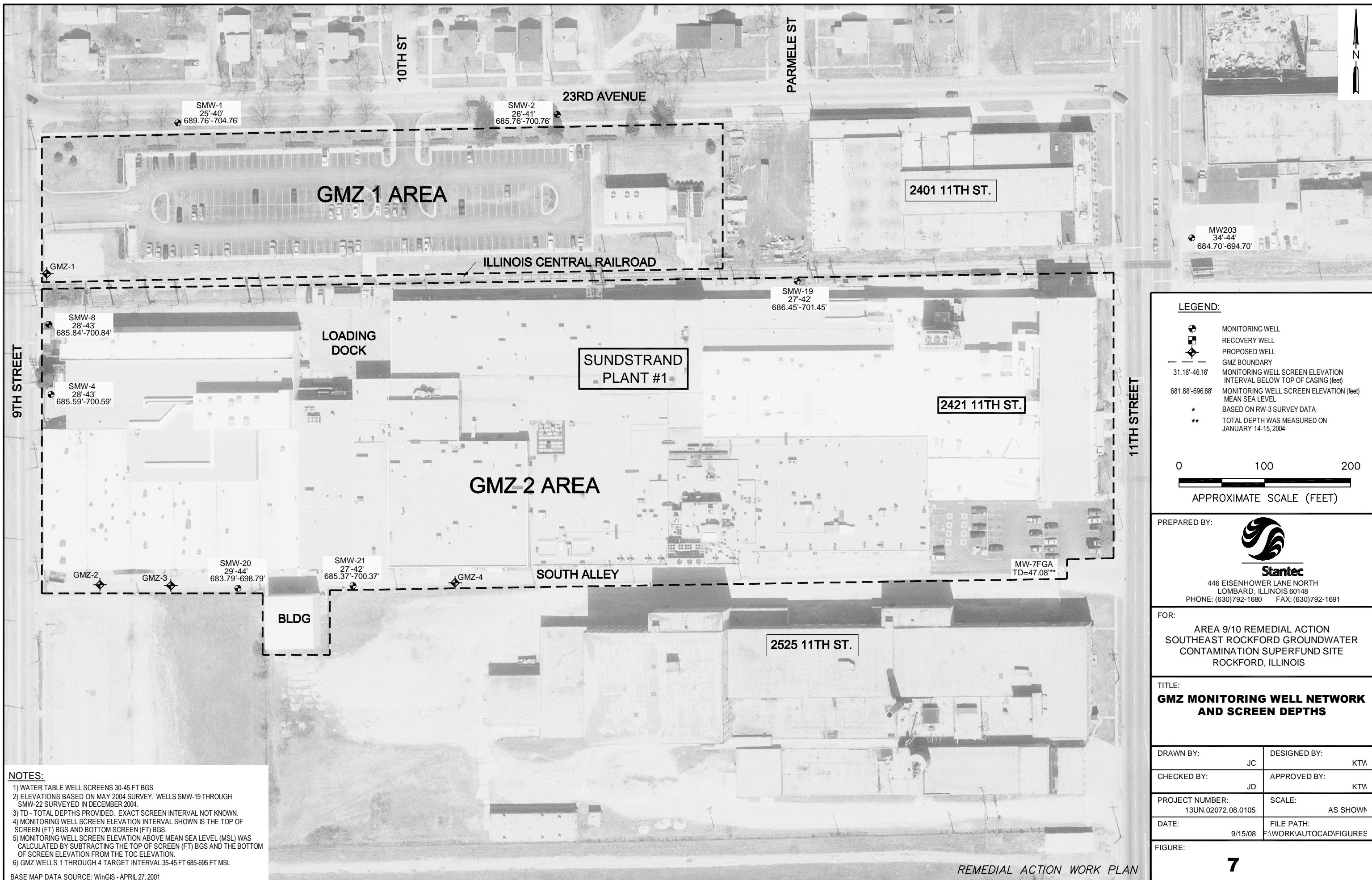
SILTY SAND

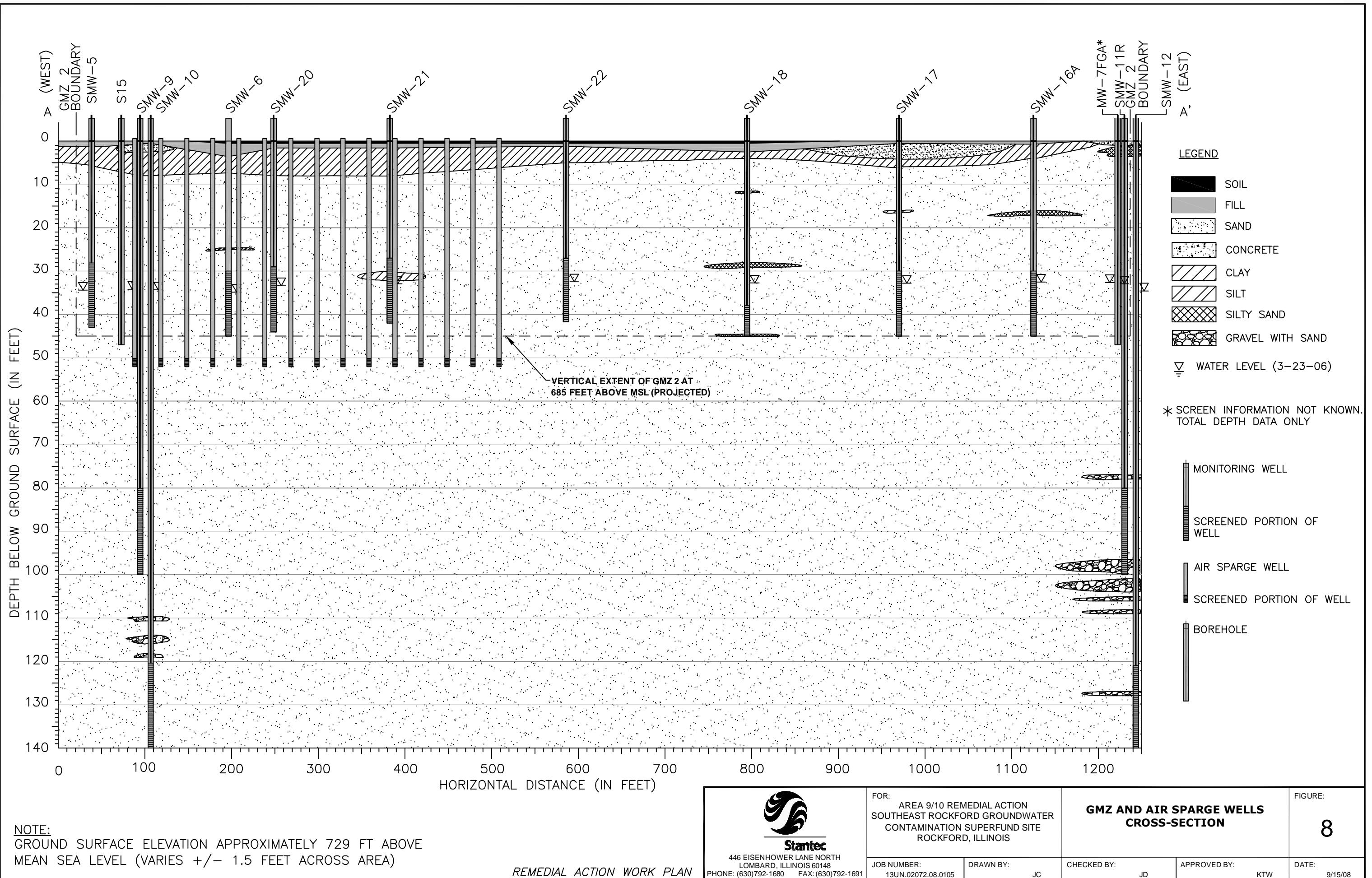
WELL

NOTE:

GROUND SURFACE ELEVATION
APPROXIMATELY 729 FT ABOVE MEAN SEA
LEVEL
(VARIES +/- 1.5 FEET ACROSS AREA)

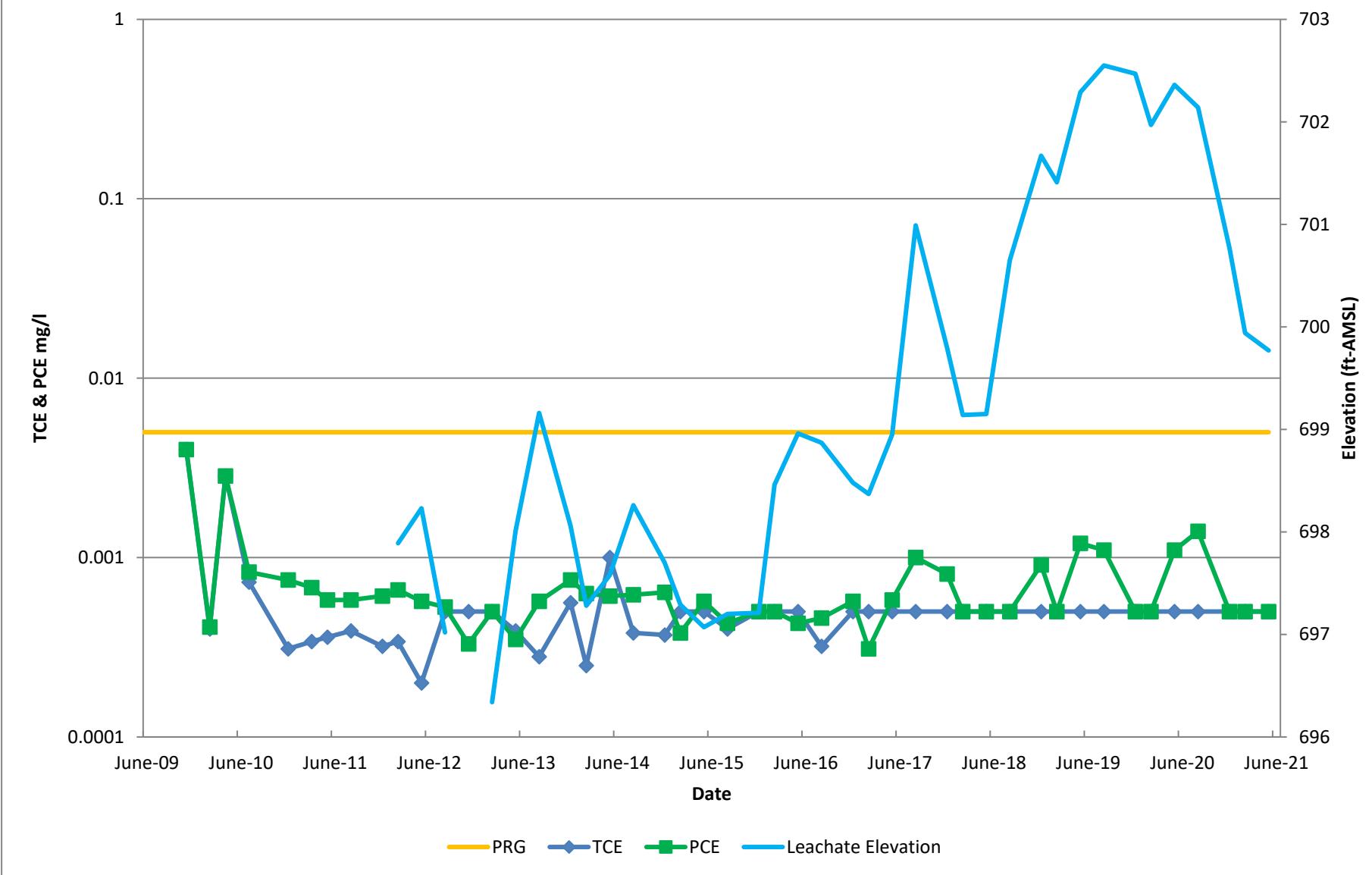




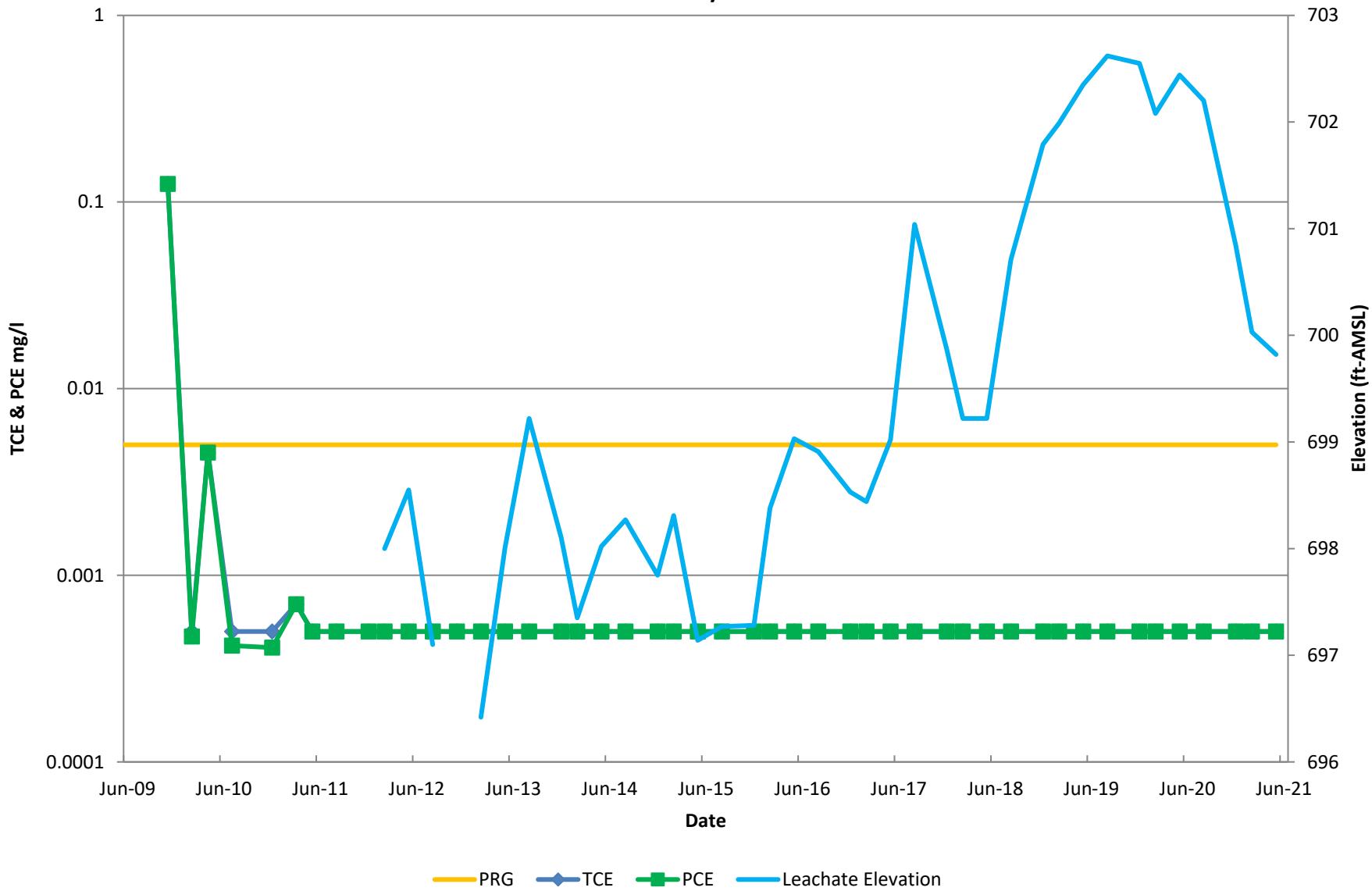


Attachment B

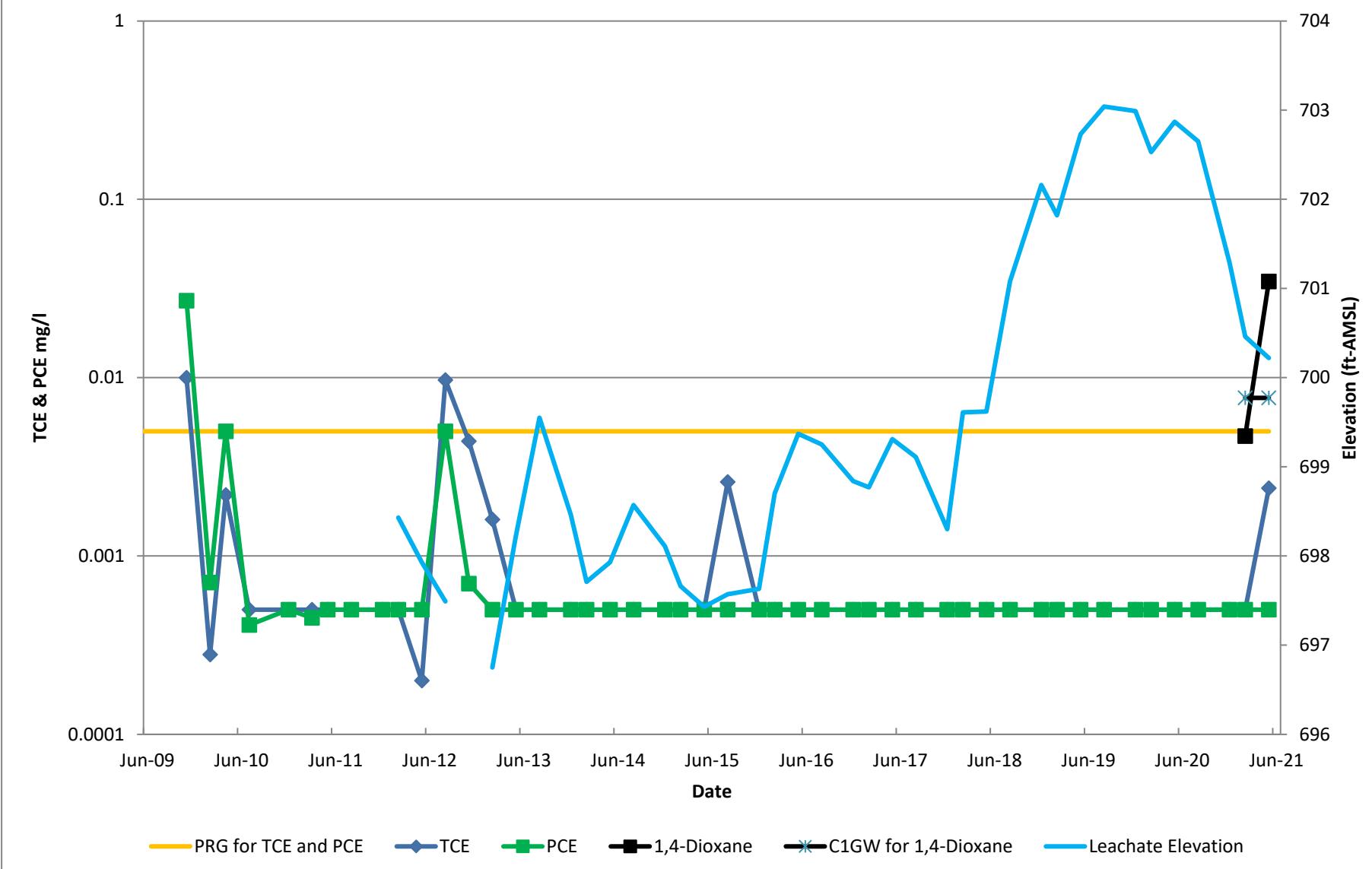
GMZ02
Hamilton Sundstrand
Plant 1/2



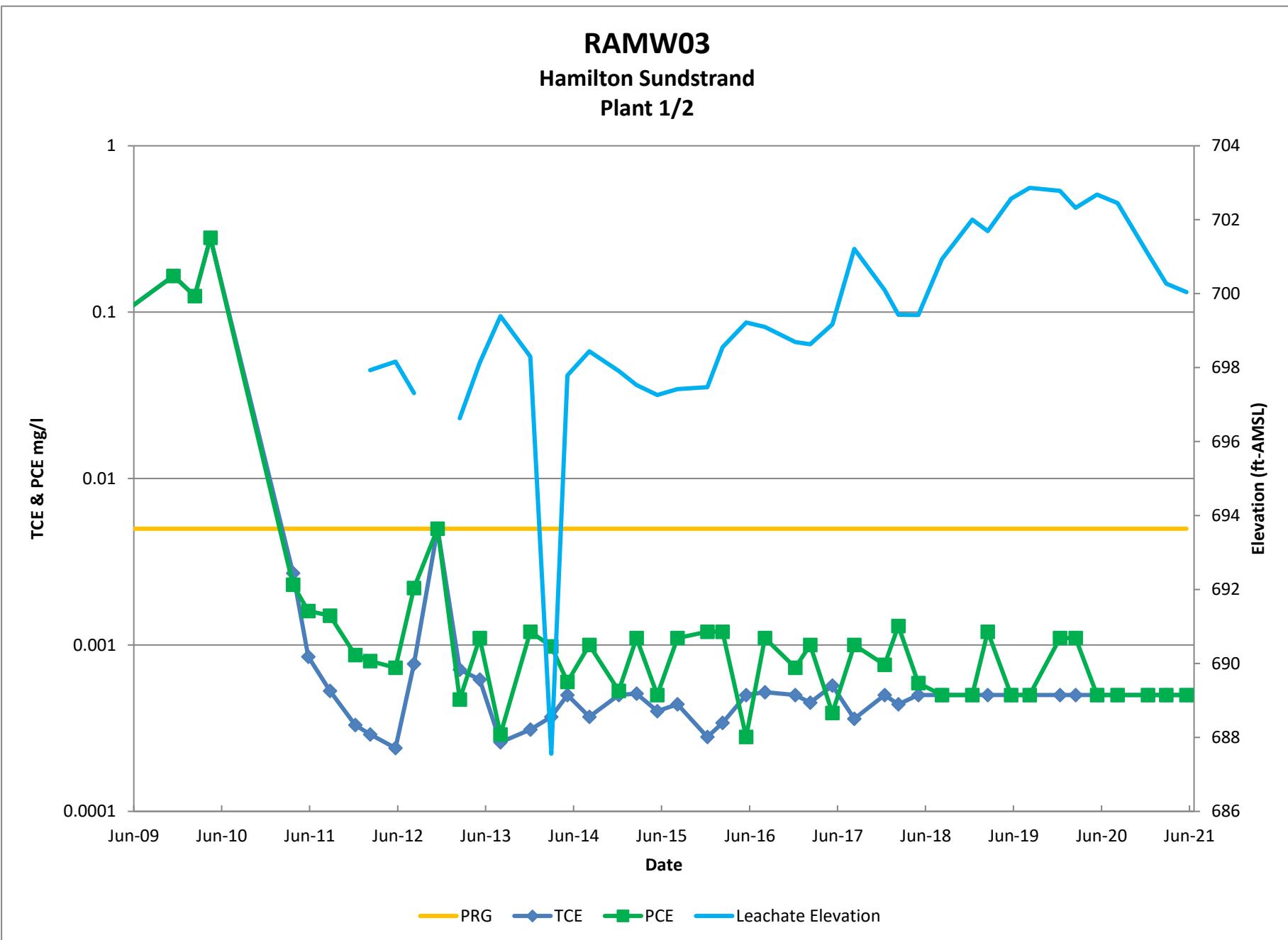
GMZ03
Hamilton Sundstrand
Plant 1/2



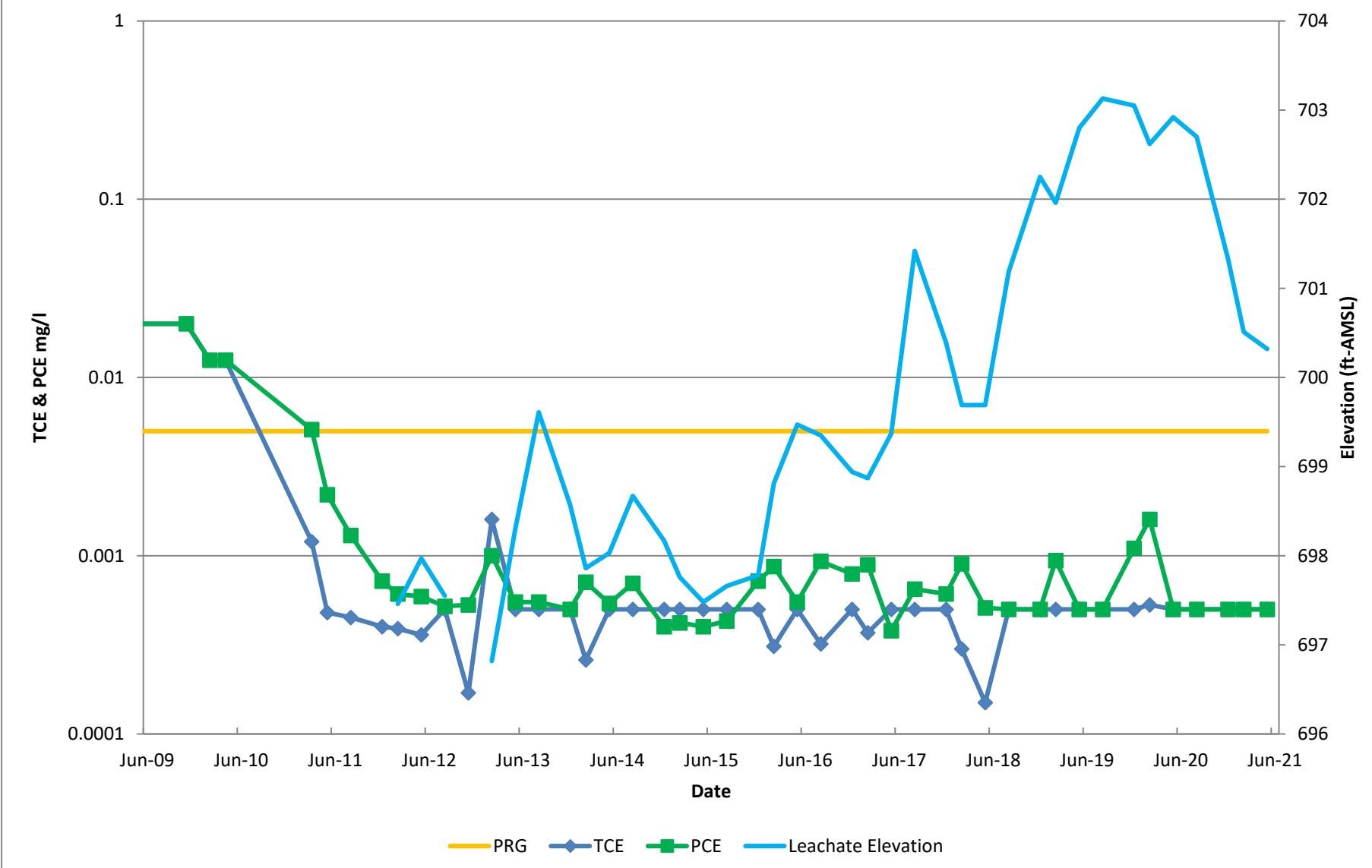
GMZ04
Hamilton Sundstrand
Plant 1/2



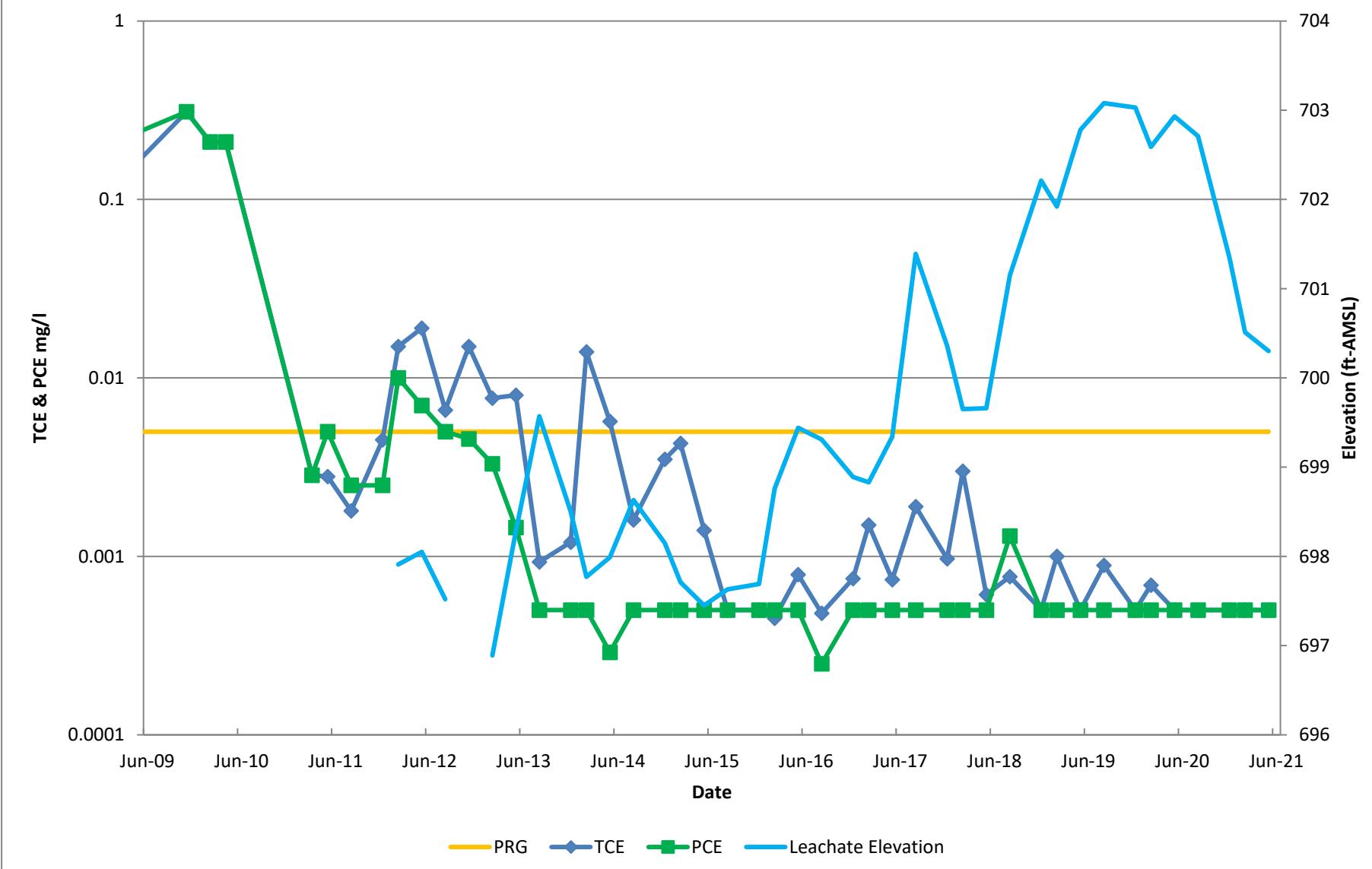
RAMW03
Hamilton Sundstrand
Plant 1/2



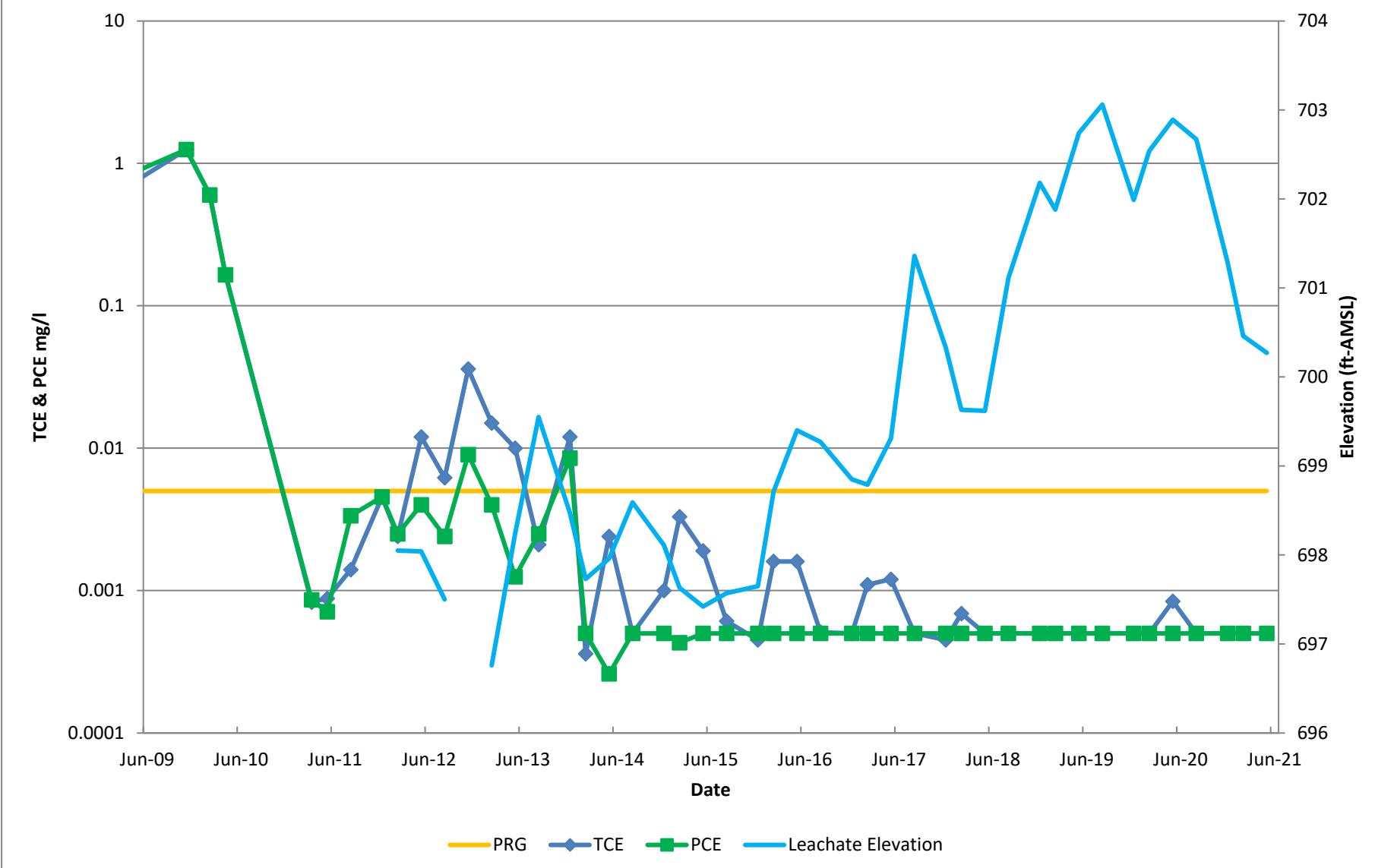
RAMW04
Hamilton Sundstrand
Plant 1/2



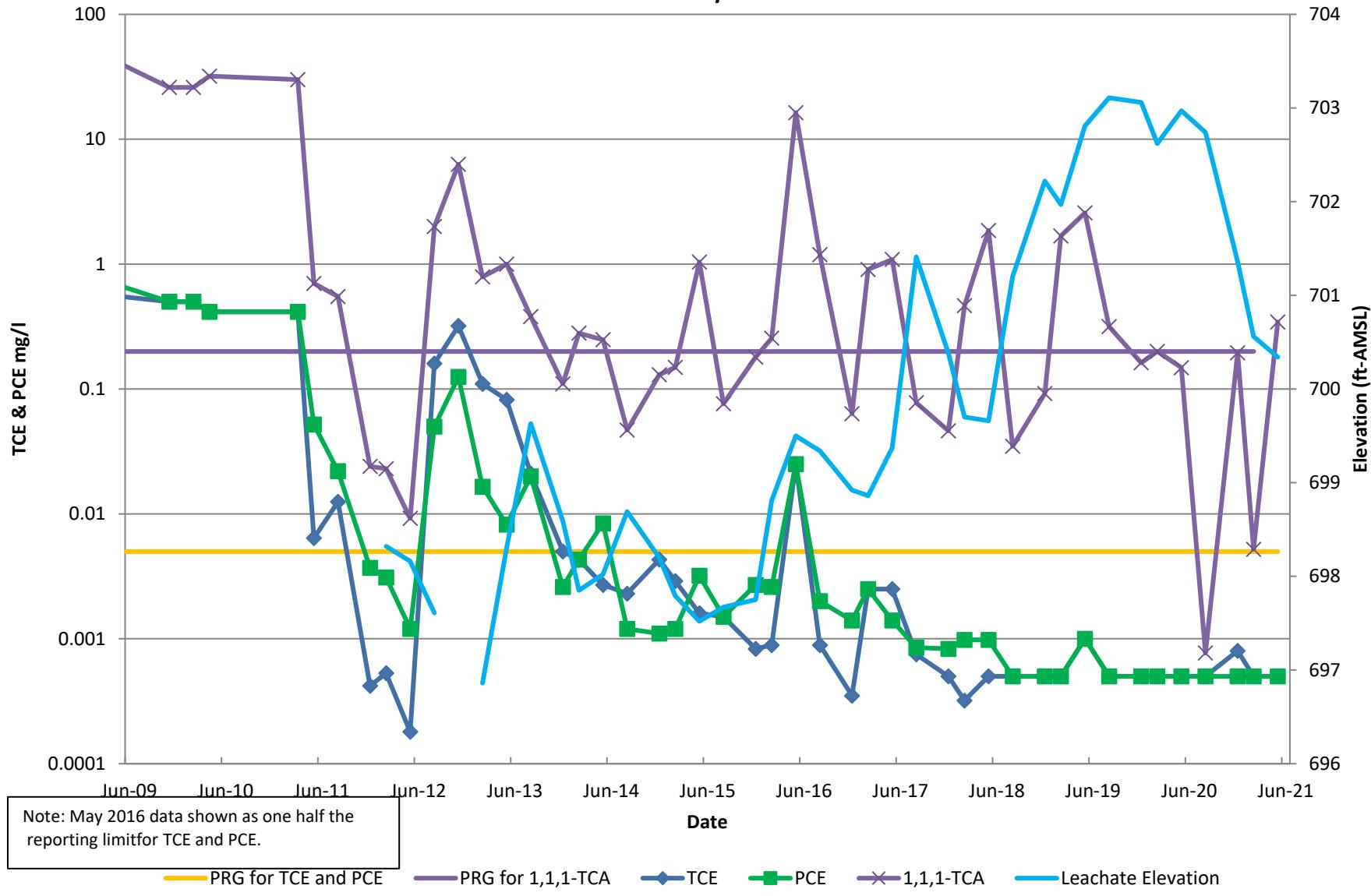
RAMW05
Hamilton Sundstrand
Plant 1/2



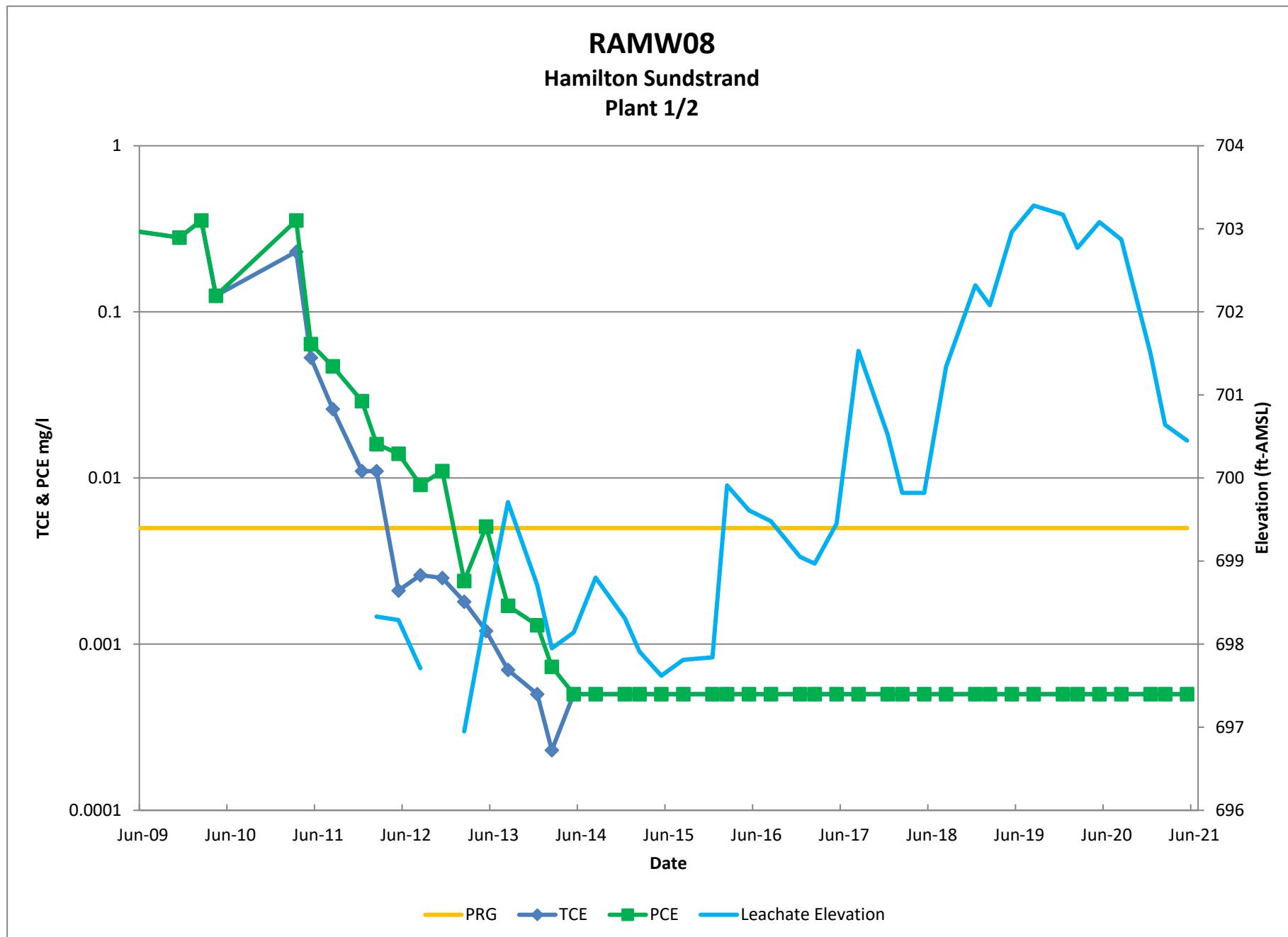
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Plant 1/2



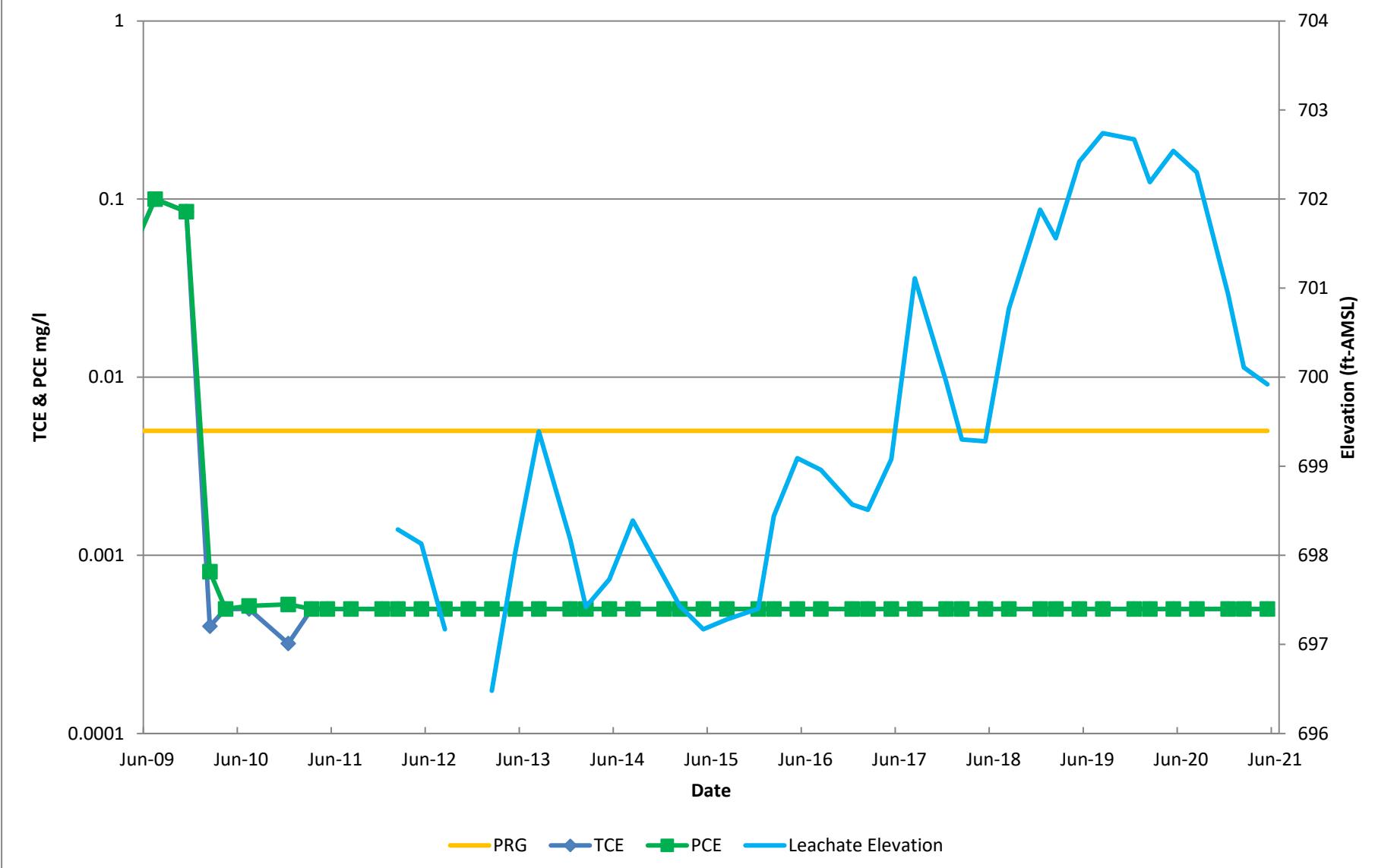
RAMW07
Hamilton Sundstrand
Plant 1/2



RAMW08
Hamilton Sundstrand
Plant 1/2



SMW20
Hamilton Sundstrand
Plant 1/2



SMW21
Hamilton Sundstrand
Plant 1/2

